```
for(1 = 0 , 1 < len + 1 , 1++ ) {

1f((*(data + 1) '= ' ' || *(data + 1) == '\0') &s code == 0) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /* Set correct data into Line Data. This is sequentall setting */
void SetIntoLine(char *src,PLine line)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PLINE NOW,
1f(inow = (PLINE)malloc(sizeof(Line))) == NULL) (
printf('Can not allocate Line memory !'!!\n');
exit(-1).
                                                                                                                                                         /* Read One Line */
int ReadLine(FILE *fp,char buf[],int max_size)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if(!line->fname)
line-sfname = Stralloc(src);
line-snc = Stralloc(src + 1);
line-no = Stralloc(src + 1);
lse if('line->option)
line->option = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /* Create Line Data from String */
PLine CreateLineData(char *data)
                                                                                                                                                                                                                                                             int 1.data,
for(1 = 0 ; 1 < max_Size , ) {
    data = getc(fp),
    id(data == FOF) {
        return(EOF);</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        now->fname = (char *)NULL;
now->no = (char *)NULL,
now->option = 0;
now->add = (char *)NULL,
now->add = (char *)NULL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .src = '#';
line->add = Stralloc(src);
                                                                                                                                                                                                                                                                                                                                                                                                                                                              | else if(data == '\n') (
| if(i == 0) (
| continue;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        strcpy(new_buf,buf),
return((char *)new_buf);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            char *Stralloc(char *buf)
return ((PLine)now);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   code = 0,
len = strlen(data),
start = data;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // buf(i - 1) = '\0';
return(1),
                                                             return((PLine)NULL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 buf[1++] = data;
buf[1] = '\0';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           tht 1,len,code,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         // Function Define
void int. scheme()
void int. scheme()
void int. scheme()

. Create(PS (char 'path);
. Create(PS (char 'path);
. Create(PS (char 'path);
. Greate(PS (char 'path);
. Teate(PS (char 'path);
. Sr 'Create(PS (char 'path);
. State(Char 'string);
. State(Char 'string);
. State(Char 'format, char 'argi, char 'argi);
. Void StreamPrint(Char 'format, char 'argi);
. Void StreamPrint(Char 'format, char 'AppName, char 'DilName, char 'UpdateList);
. Void Create(ShipFile(Char 'AppDe(Ppath, char 'AppName, char 'DilName, char 'UpdateList);
. Void Create(ShipFile(Char 'AppDe(Ppath, char 'AppName, char 'DilName, char 'UpdateList);
. Void Create(ShipFile(Char 'AppName, char 'AppName, char 'DilName, char 'UpdateList);
. Void StreamPrint(Char 'AppName, char 'AppName, char 'DilName, char 'UpdateList);
. Void StreamPrint(Char 'AppName, char 'AppName, char 'DilName, char 'UpdateList);
. Void StreamPrint(Char 'AppName, char 'AppName, char 'DilName, char 'UpdateList);
. Void StreamPrint(Char 'AppName, char 'AppName, char 'DilName, char 'UpdateList);
. Void StreamPrint(Char 'AppName, char 'AppName, char 'DilName, 
                                                                                                                                           SEGASOFT CONFIDENTIAL - Unpublished Copyright (c) [1997],
SegaSoft, Inc. All Rights Reserved.
        main.c (Dynagen function for main)
By Takashı Kosaka (C) SegaSoft INC. 1997 -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PLine SearchStringLine(char *func, PLine top)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /* Find source string from target string */
int SearchString(char * source,char *target)
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PLine now,
for(now = top ; now , now = now->next) {
  if(SearchString(func,now->fname))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    int i.j.slen.tlen,
slen = strlen(souce);
tlen = strlen(souce);
j = 0;
for(i = 0; i < tlen; i++ ) {
  if(target + i) == *(source + j)) {
   if( > = slen)
    return(i),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    for(now = top ; now , now = now->next) {
  if(strcmp(func,now->fname) == 0)
  return((PLine)now),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /* Line management Table in def file */
typedef struct _Line {
    char 'fname;
    char 'fname;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PLine SearchLine(char *func, PLine top)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     struct _Line *next;
Line, *PLine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return((PLine)NULL),
                                                                                                                                                                                                                                                                                       #include <stdio h>
#define WINDOWS
#ifdef WINDOWS
#include <windows.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                   #endif
#include "cfs.h"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            int option;
char *add;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            else
] = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return (0);
```

HACHMEN

```
if(argc < 2 || argc > 3) {
   print('generator: application-DEF-file-path dynamodule-DEF-file-path or\n");
   print('generator: application-DEF-file-path.\n");
DynaGen: Create the virtual file system and script in the virtual file system application rath-name cdynaob)-path-name>
Argments dynagen application-rath-name cdynaob)-path-name>
If sencond argment is given, dynagen generates script file in the virtual file system in the virtual file system application application application path name is relative path name for the existing application dynaob-path-name is relative path name for the existing dynamodule
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ret_v = CFSWountWithPath(appath);
ReadMiltEle(argv[1]); // DymMult1 data
switch(ret_v) {
    case 0 - // Hount Stocess '/ Hount Scoress '/ File system |
        print[(something Wrong Virtual File system \n'),
        print[(something Wrong Virtual File system \n'),
        exit(-1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if(need_script) ( /* Need to make the script file into VFS */
if(fp = fopen(argv(2), r*)) == NULL) {
    print('generator: Can not find %$\n^*, argv(2)),
    exit(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ReadLine(fp.temp.1024), /* Full path of a DLL DEF file */
ReadLine(fp.dllname.1024), /* Get DLL Name */
GerKealArbRane(dllname);
Create DLL Path
MakeAppPath(temp * 1,dllname,dllpath),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                if(argc == 2)
need_script = 0; /* Do not need to make a script file */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ReadLine(fp, temp, 1024), /* Full path of an App DEF File
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ReadLine(fp,temp,1024);  /* Exports string ignore */
App = app = LoadDeffileIntoMemory(fp);
fclose(fp);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DllReletivePath = CreateReletivePath(appath,dllpath);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MakeAppPath(temp + 1,appname,appath); // Create AppPath
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    lf(fp = fopen(argv[1], 'r')) == NULL) (
print('generator: Can not find %s\n', argv[1]);
exit(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ReadLine(fp.appname,1024); /* Get App Name */
GetRealAPPName(appname);
                                                                                                                                                                                                                 this pap, dll, now, target;
char appname | 1024 |;
char appname | 1024 |;
char alpath| 1024 |;
char talpath| 1024 |;
char temp| 2084 |;
FILE 'FD'
CPE 'out_v;
                                                                                                                                                                             word main(int arge , char *argv[])
                                                                                                                                                                                                                                                                                                                                                                                                         int ret_v;
int type;
int need_script;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             need_script = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     exit(-1);
                                                                                    'f(code == 1 && (*(data + 1) == ' ' || *(data + 1) == '\0')) (
code = 0;
cdata + 1) = '\0';
setIntoline(start.now),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             word vprint (CF *fp, char *cont, char *arg1, char *arg2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         char *FindFunctionNameFromNumber(char *number)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /* Load def into memory */
PLine LoadDefFileIntoMemory(FILE *fp)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              int 1,
for(1 = 0 : 1 < Size , 1++ ) (
.(buf + 1) = '\0';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // Clear Buffer put '\0'
'd clear_buf(char *buf,int size)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            len = strlen(buf),
cfs_encode_write(buf,len,l,fp);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      now = CreateLineData(buf);
if(old) old->next = now;
if(trop) top = now;
old = now;
err = ReadLine(fp,buf,2048);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if(arg1)
    sprintf(buf,cont,arg1,arg2);
else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           for(1 = 0; 1 < 2048; i++)
buf{1} = '\0';
                                                                                                                                                                                                                                                                                                                                                                                                                                  return((char *)NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sprintf (buf, cont);
                                                code = 1;
start = data + 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return((PLine)top);
                                                                                                                                                                                                                   return((PLine)now);
                                                                                                                                                                                                                                                                                                                                                        PLine top, now, old;
char buf[2048];
int err;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     char buf[2048];
int len,i,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // Global
PLine App,
```

```
break;
}
                                                                                exit(0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                else ( /* Only create VFS */
ret_v = CFSMountArthPath(appath);
switch(ret_v) {
    case ( /* Wrong Path Name Use */
    case 1 /* Wrong Path Name Use */
    case 2 /* Different VFS Use */
    printf("Wrong VFS Use */
    printf("Wrong VFS Use */
    printf("Mrong VFS Use */
    printf("Mrong VFS Use */
    printf("Mrong VFS Use N");
    case 3 /* Does not exits VFS */
    if(createCFS impath) {
        printf("Access dented in %s \n', appath);
    }
                                                                                                                                                                                          case 3. /* Does not exits VFS */
if(CreateCFS(appath)) {
  if((cut_v = cfs.open('init.scm'.Co_WRONLY)) == NULL) {
    print(('something Wrong Virtual File system \n');
    print(('can not make file in the VFS %s\n'.appath);
    exit(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                StreamPrintf("('.NULL,NULL),
// Swapping Function Set
for now = dll ; now : now = now-next ) (
if(target = SearchLine(now-rhame.app)) != NULL) (
if(target = SearchLine(now-rhame.app)) != NULL) (
streamPrint(out_v, (%s . %s) \n'.target->no.now->add);
}
streamPrintf['(%s . %s) \n'.target->no.now->add);
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // Wifte Ship File
CreateShipFile(argv[1], appname, dllpath, dllname, UpdateList);
                                     break;
case 1. /* wrong Path Name Use */
printf("Wrong path Name use in %s \n", appath);
exit(-1);
case 2 /* Different VFS use */
printf("Wrong path Name use in %s \n", appath);
exit(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DilReletiveFath = CreateReletivePath(appath,dllpath);
/'s SCM file '',
'yrint(out_y.'enable-dynamod \'%s\''\%s\''(in',
DilReletivePath,appname);
                                                                                                                                                                                                                                                                                                                                                ) else (
else (
printf('Access denied in %s \n'.appath);
exit(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // Update DynaMults
UpdateMultiFile(MakeDquteString(DllReletsvePath),
HakeDquteString(appname),
UpdateList),
WriteMulti(); // Write DynaMults data
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  init_scheme(); // Initialize Scheme
                                                                                                                                                                                                                                                                                                                                                                                                                             )
break,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                :
```

```
| Cnode definition | Mark | Ma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ::::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /* directory entory definition "/
struct cdent (" cnode number " ' cnode number " ' langth of this dir entry " unsigned short entlen: " langth of this dir entry ' unsigned char type; " lale type (not used yet) " unsigned char type; " langth of litename yet) char cfane (CFS-FNNAM); " langth of litename " ' channel (FFS-FNNAM); " langth of litename " ' '
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /* constant for renode mode */
idefine RCW_RF 0x4000 /* regular file
foetine RCW_RF 0x2000 /* regular file */
foetine RCW_RF (RCW_RF) | RCW_RF| (RCW_RF) |
foetine RCW_RF (RCW_RF) | RCW_RF| /* sopect file */
**/
Struct cfs_rsb.

Struct cfs_sb.

Struct cfs_sb.

Struct cfs_cfl.e; /* real definition is in cfs_file.h.*/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /* file readable
/* file writable
/* file executable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /* flags for struct crade */
idefine (N.1850 0x001)
idefine (N.28100K 0x0001)
idefine (N.28700K 0x0001)
idefine (N.28700K 0x0001)
idefine (N.2870K 0x0001)
idefine (N.2870K 0x0001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           #define CL_UN 0x000
#define CL_UN 0x000
#define CL_SH 0x001
#define CL_EX 0x0002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     #define RCN_READ 0x0100
#define RCN_WRITE 0x0080
#define RCN_EXECUTE 0x0040
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /* type definition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /* for ANSI C prototype */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /* for K&R C prototype */
                                                                                                                                                                                                                                                                                                             ^{\prime} absorbation difference between K&R C and ANSI C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /*
* system dependent type definition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               tif (defined solaris)
felif (defined sun)
felif (defined sun)
felif (defined sun)
typedef unsigned char uchar,
typedef unsigned char uchar,
typedef unsigned long
typedef unsigned long
typedef unsigned char uchar,
felif (defined linux)
felise
typedef unsigned that uchar,
felise
typedef unsigned att unbur,
typedef unsigned long ulong,
typedef unsigned long ulong,
typedef unsigned long ulong,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Alindef P
fildef STDC
Heline P(protos) protos
Helse Heline P(protos) ()
Heddif /' STDC ''
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /* for file open mode */
tdefine CO_RDONLY 0x0001
fdefine CO_WRONLY 0x0002
fdefine CO_APPEND 0x0004
jdefine CO_RDMR 0x0008
                                                                                                                                                                                                                         Nunclude <sys/types.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                              *indef const

*indef _STDC__

eilne const

Ndif /* STDC__

endif /* const */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              * structure definition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /* for file seek "/
#define CFS_SEEK_SET
#define CFS_SEEK_CUR
#define CFS_SEEK_END
                                                                                                                                     define CFS_H_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  define CEOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      defines
, cfs h
```

```
P((const char *cpath, ushort mode));
   P((const char *cpath));
   P((const char *cpath), const char *npath));
   P((const char *cpath),
   P((const char *cpath),
   P((const char *cpath));
   P((const char *cpath));
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  P((const char *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              __P((CP *cfp, long offset, int whence));
__P((CP *cfp));
__P((CP *cfp));
__P((CP *cfp));
__P((CP *cfp));
__P((CP *cfp));
                                                                                                                                                                                                                                                                                                                                                                                        cfs_init.c **/ ke_new_fs __P((const char *pathname, long bs, .xtern int cfs_make_new_fs __D(ong ts, long cco));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /* cfs_crypt c */
extern int cfs_decode_read __P((void *buf, size_t csize,
extern int cfs_encode_write __P((const void *buf, size_t bsize,
size_t binnemb, CF *cfp);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         _P({const char *cpath, CN *cn));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              P((const char *pathname)),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /* cfs_polymorph c */
extern int cfs_deate_aspect __P((const char *aspect));
extern int cfs_clear_aspect __P((void));
extern char 'cfs_current_aspect __P((void));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           P((CF *cfp, int op));
P((CF *cfp));
P((CF *cfp));
CN;
CDENT;
CF;
CDIR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            retern int cfs_mkdir
extern int cfs_mkdir
extern int cfs_mink
extern int cfs_remove
extern int cfs_remove
extern int cfs_chdir
extern cons cfs_opendir
extern cons cfs_opendir
extern cons cfs_copendir
extern cons cfs_copendir
extern cons cfs_copendir
extern cons cfs_creatint
extern void cfs_rewinddir
extern void cfs_rewinddir
extern long cfs_telldir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /* cfs_tile.c */
excern int cfs_fseek
excern long cfs_fcell
excern void cfs_rewind
excern int cfs_ecof
excern int cfs_error
excern void cfs_crear_eof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /* cfs_lock.c */
extern int cfs_lock
extern int cfs_locktype
extern int cfs_locktype
typedef struct cnode typedef struct cdent typedef struct cfs_cfile typedef struct cfs_dir
                                                                                                                                                                                                                   prototype declaration
'
'
'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /* cfs_mount.c */
extern int cfs_mount
extern int cfs_umount
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             #end1f /* _CFS_H_ */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /* cfs_cnode "/
extern int cfs_cnode
```

V

```
SEGASOFT CONFIDENTIAL - Unpublished Copyright (c) [1997],
SegaSoft, Inc. All Rights Reserved.
#define OneDown(now) ((now) ->Next)
#define DirNotSame(src,dst) (strcmp((src)->Dir,(dst)->Dir))
                  directory c (Dynagen function)
By Takashi Kosaka (C) SegaSoft INC. 1997 -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // String copy by lower case
void StrCpyLowcase(char 'dst, char 'src)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if(!top) top = now;
now-blac (pp + pr);
now-Naxt = (PmyDir)NUL;
(pp + 1) = '\(0');
// prinf('\Dir: %s \n'.now-bDr);
if(old)
                                                                                                                                                                                                                                                                                                                           /bir CreateDirectroyData(char *path);
                                                                                                                                                                                                                                                                                                                                                           PMyDir CreateDirectroyData(char *path)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        for(; *src; src++) (
if('src >= 'A' & & *src <= '2')
*dat++ = *src - 'A' + 'a',
else *dst++ = *src,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         for( 1 = 0 ; 1 < len; 1++ ) (
    if(*(path + 1) == '') (
    pp = path + 1 + 2;
    break;</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                           old = top = (PMyDir)NULL;
len = strlen(path);
                                                                                                                                                                                                                                     typedef struct _MyDir (
    char *Dir;
    struct _MyDir *Next;
    MyDir, *PMyDir;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            old->Next = now,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // Create Relative Path
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          return((PMyDir)top);
                                                                                                                                   Anclude <stdio.h>
*define WINDOWS
#Ifdef WINDOWS
#Include <windows.h>
#endif
                                                                                                                                                                                                                                                                                                                                                                                           PMyDir top, now, old;
int i,len, prv;
char *pp,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         old = now;
prv = 1 + 1;
```

```
/* Make Application Path name */
void MakeAppPath(char *DefFilePath,char *AppName,char *AppPath)
thar * CreateReletivePath(Char *src_path, char *dst_path)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         dnow = d8t;
Target(D = \0.0;
for! snow = src ; snow ; snow = OneDown(snow)) {
   if(DrivetSame(snow, dnow)) {
      while(snow) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           strcpy(AppPath, DefFilePath),

len = stran(AppPath) - 1;

for[1 = 1en, 1 > 0; 1 - 1]

if (AppPath 1) == '(') |

strcpy(AppPath + 1 + 1, AppName);

break;
                                                                                    static char SrcDir(2048); DatDir(2048); Satic char Target[1024]; PMyDir src,dst, snow,dnow; int len,i;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        len = strlen(dst_path) = 1,
fox(a = len ...) 0 ; 1 ... ) (
    lf(*dst_path + 1) == '/' |
    f(st_path + 1) |
   f(st_path + 1) |
   f(st_path + 1) |
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  f(st_path + 1) |
  f(st_path + 1) |
  f(st
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           src = CreateDirectroyData(SrcDir);
dst = CreateDirectroyData(DstDir);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // AppName has appname.
// This function take out .
void GetRealAPPName(char appname)
                                                                                                                                                                                                                                                                                                                                                                        StrCpyLowcase(SrcDir,src_path);
StrCpyLowcase(DstDir,dst_path);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // Drive Check
if(SrcDir[0] != DstDir[0]) {
  return((char *)DstDir);
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      while(dnow) {
  stroat(Target,dnow->Dir);
  stroat(Target,"/"),
  dnow = OneDown(dnow);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         snow = OneDown(snow);
while(snow) (
streat(Target,"../");
snow = OneDown(snow);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      dnow = OneDown(dnow);
if('dnow) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      return((char *)Target);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       strcat(Target, ' /*),
snow = OneDown(snow);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              int 1, len, flg;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      int 1, len;
```

```
| stropy(buf,appname + flg);
                                           strcpy(appname,buf);
)
```

```
| Princf(fp., Trail of the principle | Princf(fp., Trail of the princf(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              void CreateShipFile(char *AppDefPath,char *AppName,char *DllPath,char *DllName,char *UpdateList)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1f((fp = fopen(ShipPath, "w")) == NULL) (
    fprint((stderr, Error: Can Not Create %s file \n", ShipPath);
    exit(-1);
                                                                                                                                                                         SEGASOFT CONFIDENTIAL - Unpublished Copyright (c) [1997], Segasoft, Inc. All Rights Reserved
                                      ship c (Dynagen function)
By Takashı Kosaka (C) SegaSoft INC. 1997 -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             len = strlen(DllName);
strcpy(TergetDLLPath, DllName);
strcpy(TergetDLLPath + len - 4,*/*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   )
len = strlen(ShipPath),
strcpy(ShipPath + len - 1, "Shp"),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            idefine APP "/app ".dynamodule:"
define INTSC '/untsc:
'eine VFS
'vfs:
'tine VFSDATA '/vfsdata:'
'eine VFSDATA '/vfsdata:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      char TergetDLPath[1024];
char ShipPath[1024];
char TimeBuf[1024];
FILE *fp;
                                                                                                                                                                                                                                                                                                                #include cstdio h>
#include ctime h>
#define WINDOWS
#idef WINDOWS
#include cwindows.h>
#endif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              time ( &ltime );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     int i,len;
time_t ltime;
```

```
else if(*finame == ''') ( // Member Function or ANSI C Function !''''
GetFunNameClassName(finame + 1,buf,2),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          void CheckMultipleUse(char *OldDllPath,char *oldlist,char *newlist)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              'else if(strncmp("??1",fname,3) == 0) ( // Destructor
GetFunNameClassName(fname + 3,buf,1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         for(oldnext = oldlist , oldnext ; ) {
  oldnext = FindNumberFromList(oldnext.oldnum);
  if(ioldnext)
  break,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if(strncmp(*'20", fname, 3) == 0) ( // Constructor
GetFunNameClassName(fname + 3,buf, 0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          char oldnum[256], mewnum[256], *oldnext, *newnext, char oldollName[256]; char *Fname; anc i;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 default:
default:
default:
default:
desse())
else
---int((dst,*$s',Fname);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  else if (strncmp("??_GC", fname,5) == 0) (
return((char *)NULL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  char *MakeReadableFunctionName(char *fname)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sprintf(dst,"~%s:.%s",Fname,Fname);
break;
                                                                                                                                                                                                                                                                                                                                                                                                                    sylch(option) (
case 0: // Constructor
sprintf(dst, *%s::%s., Fname, Fname);
break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sprintf(dst,"%s",Fname); break;
if(*(src · i + 1) == '0') {
   Class(flg) = '\0';
   if(i < 512)
   Fname(1) = '\0',</pre>
                                                                                                                                                                                                                                                                            )
else if(flg >= 0)
Class{flg+1} = *(src + i);
                                                                                                                                                                                                                                                                                                                                                        else
Fname[1] = *(src + 1);
                                                                                                                                                                                     flg++,
Fname(i) = '\0';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   else ( // C Function
strcpy(buf,fname + 1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if(!fname)
    return((char *)NULL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              static char buf[1024];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return((char *)buf);
                                                                                                                            break,
                                                                                                                                                       ) else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .
                                                                                                                                        SEGASOFT CONFIDENTIAL - Unpublished Copyright (c) [1997], SegaSoft, Inc. All Rights Reserved
               StoreMulti.c (Dynagen function)
By Takashı Kosaka (C) SegaSoft INC 1997 -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     // option: 0, Constructor
// option: 1, Descructor
// optino: 1, Descructor
// optino: 3, Member Function
// Terminate is '8#'
void GetFunNameClassName(char *src,char *dst,int option)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          char *FindNumberFromList(char *list,char *number)
                                                                                                                                                                                                                                                                                                                                                                                                                                               // Function Definition
char *FindFunctionNameFromNumber(char *number);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              int len.i;
len strlen(path) - 1;
for( 1 = len : 1 > 0 : 1 -- ) {
   if(*(path + i) == '/- | |
        *(path + 1) == '/- | /
        return((char *)path + 1 + 1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            char Class[512]. Fname[512];
int i.len.flg;
int strlen(src);
flg = -1,
class[0] = \( \lambda \) \( \lambda \)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           for(1 = 0 , i < size ; 1++ )
*(number + 1) = *(ret + 1),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            size = 0;
len = stite(list),
ret = (char *)NUL;
for[ = 0 ; i < len ; i++ ) {
   if( *(list + 1) == '(' ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               i++;
if("(list + 1) == '(')
ret = list + ++1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               char *GetNameFromPath(char *path)
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ret = list + 1;;
size ++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              return((char *)path + 1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 )
if(1 >= len)
return((char *)NULL),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              *(number + 1) = '\0';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           return((char *)next),
                                                                                                                                                                                                                                                                 finclude <stdio.h>
fdefine WINDOWS
fildef WINDOWS
finclude <windows.h>
fendif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       int i,len,size;
char *ret,*next;
```

```
void UpdateMultiFile(char *DllPath,char *AppName, char *UpdateList)
(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if((now = (PMulti)malloc(sizeof(Multi))) == NULL) (
    fprint((stderr."Can not allocate memory %d bytes)n.
        sizeof(Multi));
    exit(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Line Representation Name '((12 . 1x20) ..., 'propassedule-path' Application Name' '((12 . 1x20) ..., 'Propassedule-path' Application Name' ((12 . 1x20) ..., 'rest Wulf Data 'line,int len)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             static Phulti TOP = (Phulti)NULJ;
static Phulti OLD = (Phulti)NULJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     'else if (*(line + i) == '"' && !first) {
   first = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ) else if (*(line + 1) == ' && [irst) (
     *(line + 1) = '\0';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if ('10P) TOP = now;

if (clib) old-next = now;

old = now;

now--next = (Pholit) NULL;

now--NpQName = (char ') NULL;

first = 1, 1 < ln ', 1 < l
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    else if (*(line + i) == '\'') (
now->UpdateList = line + i;
break;
                                                                                                                                                                                                                                                                          else ( // None
*Size = 0,
return{(unsigned char *)NULL):
return((unsigned char *)tmp);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       vold SkipUntilCr(FILE *fp)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     int data;
data = fgetc(fp),
while(data '= '\n')
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PMult1 now.last,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                int i,first;
PMulti now;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ıf(!lıne)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 els if(TopStream offset >= TopStream.size ) {
    unsigned char *tmp,
    if(Icmp = unsigned char *tmp,
    if(Icm = unsigned char *)malloc(TopStream.size + STREAMSIZE)) == NULL) {
    if(Icmp = unsigned char *)malloc(TopStream.size + STREAMSIZE);
    fprint(iscderr, Error: Can not allocate Memory Nd \n*, TopStream.size + STREAMSIZE);
    exit(-1);
                                                                                                                                                                   if(strcmp(oldnum.newnum) == 0) {
  Fname = MakeReadableFunctionName(FindFunctionNameFromNumber(oldnum));
  f(Fname) {
    fprint((stderr,"Warning, %s has already used in %s. \n",
    fprint((stderr,"Warning, %s has already used in %s. \n",
    fprint(forderr,"Warning, %s has already used in %s. \n")
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if(TopStream offset) (
    unsigned char *tmp;
    unsigned char *tmp;
    if(tmp = lunsigned char *)malloc(*size)) == NULL) (
    furnit(stear, "Error: Can not allocate Hemory %d bytes \n", "size),
    exit(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         for(newnext = newlist : newnext ; ) {
    newnext = FindNumberFromList(newnext, newnum);
    if(inewnext)
    break;
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             static Stream TopStream = {0, {unsigned char *}NULL,0,1};
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                }
*{TopStream.mem + TopStream offset++) = data;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 memcpy(tmp,TopStream mem,TopStream.size),
free(TopStream mem),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // Get buffer from a Stream
unsigned char *GetStreamBuffer(int *size)
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              memcpy(tmp,TopStream.mem,*s1ze), TopStream offset = 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TopStream mem = tmp,
TopStream.size += STREAMSIZE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TopStream.size = STREAMSIZE;
TopStream.init = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Multi data into a stream // Data must has NULL terminate void PushBytes(unsigned char "data)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  // data into a Stream
void PushByte(unsigned char data)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 while("data) (
PushByte("data++);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 #define STREAMSIZE 1024
                                                                                                                                                                                                                                                                                                                                                                       )
break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  int init,
Stream, "PStream;
```

```
1f((fp = fopen(dynamulti,"w")) == NULL) (
    fprint((stderr,"Error: Can not Creace File %s \n".dynamulti);
    exit(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // Stream Printf
void StreamPrintf(char *format,char *argl, char *arg2)

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      for( now = TOP : now ; now = now->next) {
    fprintf(fp, *%s %s \\\\n$\n*, now->ModulePath,
    now->AppName, now->UpdateList);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        int size;
PushByte('\0');
return((char *)GetStreamBuffer(&size)),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          nnt size;
PushBytee(''');
PushBytes(string);
PushByte(''');
PushByte(''');
return((char ')GetStreamBuffer(ksize));
                                                           )
else
PushByte((unsigned char)data),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if(argl)
sprincf(buf,format,argl,arg2);
else
sprincf(buf,format);
                                                                                                                                                                                         )
sf(tcode) {
line = GetStreamBuffer(&len);
SetMultiData(line,len),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  // Make String with 'xxxxx"
char "MakeDguteString(char "string)
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 // Write Multi DynaModule data file
void WriteMulti()
{
SetMultiData(line,len);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 for(1 = 0 , i < 2048 , 1++ )
buf(1) = '\0';
                                                                                                                                                                                                                                                                                                                                                                                        else
GetStreamBuffer(&len);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     char * StreamPrintEnd()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PushBytes (buf);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              char buf[2048];
int i;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PMults now;
FILE *fp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         }
fclose(fp),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (close(fp);
                                                                                                                                                                                                                                                                                                                                                                                                                                              )
else {
CheckMultipleUse(now->ModulePath,now->UpdateList,UpdateList),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ) ('set) ('/ Add New
lf(low = [Philth.nalloc(sizeof(Mult1))) == NULL) (
fpr.nt(stderr, Can not allocate memory %d bytes\n',
exit(-1);
                                           int set;
set = 0,
last = (PMult.)NULL;
for( now = TOP ; now ; now = now->next) {
    if(stremp(now->wbodulePath,DllPath) == 0 is
        stremp(now->wpodulePath,DllPath) == 0 is
        stremp(now->wpodulePath,DllPath) == 0 is
        stremp(now->wpoduleDath,DllPath) == 0 is
        stremp(now->wpoduleDath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath,DllPath
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        else if (data == '\\'') { // continue check
code = 'gerc(fp)'
!(Gode '= '\\'') { // continue
f pushbyce((unsigned char)data);
Pushbyce((unsigned char)code),
code = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PubhByte((unsigned char)data);
PushByte((unsigned char)code),
code = 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if((fp = fopen(dynamulti,'r')) == NULL) (
    return,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         else if (data == ',')
SkipUntalCr(fp);
else if(data == '\n') {
PushByte('\0'),
line = GetStreamBuffer(£len),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           static char dynamulti[1024]; // path name
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              now->next = (PMulti)NULL;
now->bodulerath = DilPath;
now->AppName = AppName;
now->updateList = UpdateList;
iflast) last->next = now;
if('TOP) TOP = now;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // Read Multi Dynamodule control File void ReadMultiFile(char *app...def_path)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return,

code = 0,

// Readnup Data

f// Readnup Data

f/ (ata == fetc(fp):

if (ata == for);

code = fegec(fp);

if (ata == for);

break;

code = fegec(fp);

if (code == fercile);

for if (code == fercile);

f
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   strcpy(dynamult1.app_def_path),
len = strlen(dynamult1),
dynamult1[len - 3] = '\0';
strcat(dynamult1.amul*),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     char *line;
FILE *fp;
int data,len,code;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 )
last = now,
```

```
// Maketr is a macro that allows you with C's pointer arithmetic. It is a macro that allows you with C's pointer arithmetic. It is asserted together han hast two painterers as Dandsna. The first to painter to typecat the treault to the appropriate pointer type '/ Heffits Maketri (cast, prr. addvalue) (cast) (unsigned char ')(pri) * (addvalue) (sypedef strucht ("struchts) ("cast) (unsigned char ")(pri) * (addvalue) (sypedef strucht ("correspue) the struchts) ("correspue) the struchts ("correspue) the strucht
```

```
int GetDynaPlaySymbolIndex(PIMAGE_SYMBOL pSymbolTable ,int cSymbols);
int search, string(char * source.char *target);
void DynaMoidAPP();
int GetSymbolTable();
int GetSymbolTable();
void WitteDynaChael(char *name.int flag);
void WitteDynaChael(char *name.int flag);
void WitteDynaChael(char *file_name);
char *stralloc(char *bulf);
void MakeSymbolChainWithRelocation(char *org_name,char *new_name);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ocontrol.stringTable = (unsigned char *)NULL;
free(control langagEnlededer).
control.pimageFlededer = (FIMAGE_FILE_HENDER)NULL;
ocontrol.cooperance = (FIMAGE_SYHBOL)NULL;
ocontrol.stree = 0;
FreeNewSymbolTable ();
FreeNewSymbolTable ();
FreeNewSymbol = (FSYHBOL,CIAIN)NULL;
ocontrol.oldsymbol = (FSYHBOL,CIAIN)NULL;
                                                                                                                                                                                                                                                                                                                                                                               for(iow = ocontrol.topsymbol ; now ;) (
free(now >= symbol);
old = now,
now = now >next;
free(old);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  for(now = ocontrol.topstring; now;) {
    fre(now-name);
    old = now;
    now = now -next;
    free(old);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return ({unsigned long)buf st_mtime);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    unsigned long GetModifyTime(char *path)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              void MakeDBJName(char *path,char *dst)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             void ReplaceDirectoryName(char *buf)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      int i,len,

len = strien(path),

len = strien(path),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      struct _stat buf,
if(_stat(path,&buf) < 0)
    return((unsigned long)0);</pre>
                                                                                                                                                                                                                                                      void FreeNewSymbolTable()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       void init_contorl_table()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             void FreeNewStringTable()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PSTRING_T_CHAIN now; PSTRING_T_CHAIN old;
                                                                                                                                                                                                                                                                                                         PSYMBOL_CHAIN now;
PSYMBOL_CHAIN old;
                    Dynaob): SegaSoft NetWork Inc. (c) by Takashı Koska
This Program changes obj file to dbj file and
creates dynatab.dbj.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         infdef _DEBUG
if(idebug_fp = fopen("OBJdebug.txt","w")) == NULL)
enalf
fendif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "vpedef struct (
unsigned char 'stringTable;
unsigned char 'stringTable;
PIMAGE FILE, HEADER pImagefileHeader;
int COFFSymbolCount;
PIMAGE_SYMBOL PCOFFSymbolTable;
int size;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               struct _string_t_chain *next;
} STRING_T_CHAIN, *PSTRING_T_CHAIN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             typedef struct _string_t_chain (
   char 'name;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ant size,

/* For Original COFF */

/* FOR Original COFF */

FSYREOL_CHAIN togswhob;

FSYRENG_CHAIN oldswhob;

FSYRENG_CHAIN Oldstring;

FSYRENG_TCHAIN oldstring;

FSYRENG_TCHAIN oldstring,

INT NextSTINGTHABES;

INT NextSTINGTHABE;

INT NextSTINGTHABE;

CONTROL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 typedef struct _symbol_chain (
    PIMAGE_SYMBOL symbol;
    struct _symbol_chain *next;
} SYMBOL_CHAIN, *PSYMBOL_CHAIN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      int map_file(char *file_name);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               // Debug Statement Close void CloseDebug()
                                                                                                                                     finclude cstdio hyddrine MINDOWS
lidef MINDOWS
linclude cwindows.hy
linclude cstring hy
linclude cstring hy
linclude csys/types.hy
linclude csys/types.hy
linclude csys/stdi.hy
linclude csys/stdi.hy
linclude csys/stdi.hy
linclude cwidio.hy
eliele "winnt.h"
"andide "winnt.h"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         // Debug Statement Open
vold OpenDebug()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     #1fdef _DEBUG
fclose(debug_fp);
#endif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         def _DEBUG
rILE 'debug_fp,
#endif
```

```
break,

1f(low = CreateLineData(buf,no++))) (

1f(lod) old-snext = now,

1f(lot) top = now;

old = now,

err = ReadLine(fp,buf,2048);
for( i = 0 ; *(data + i) ; i++ ) {
   if(*(data + i + 1) == = ') {
        return(i + 2);
        else
        return(i + 1);

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /* Load def into memory */
PLine LoadDefFileIntoMemory(FILE *fp)
                                                                                                                                                   /* Create Line Data from String */
PLine CreateLineData(char *data,int no)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                static int NumberOfFunction = 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    no = 0;
old = top = (PLine)NULL;
or = ReadLine(fp,buf,2048),
while (err '= EOF) (
if(buf[0] == ',')
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NumberOfFunction = no
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           return ((PLine)now);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PLine top,now,old;
char buf[2048],
int err,no;
                                                                                                                                                                                                                                                                                           Closebebug();
exit(1);
                                                                                                                                                                                            int i,len,code;
char *start;
                                                                                                              return (0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /* Set correct data into Line Data. This is sequentail setting */
void SetIntoLine(char *src, Pline line, int no)
                                                                                                                                                                              DEF file interface

'Line management Table in .def file "/
typeds struct Line (
char "fname.
                                                                                                                                                              /* Read One Line */
int Readiine(FILE *fp,char buf[],int max_size)
                                                                                                                                                                                                                                                                                                                                                                              for(now = top ; now ; now = now->next) (
if(strcmp(func,now->fname) == 0)
return((PLine)now);
                                                                                                                                                                                                                                                                                                                                         PLine SearchLine(char *func, PLine top)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              int i,data;
for[a = 0 , 1 < max_size ; i++ ) {
    data = getc(fp);
    if(data = EOF) {
        buf[i] = '\0';
        return(EOF);</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          If(!line->fname)
Line->fname = stralloc(src);
Line->fname = stralloc(src);
Line->no = no;
Jelse If(!line->option)
Jelse If(!line->option)
Lif(stre = 0')
*stc = "#';
                               int len,i,
len = strlen(but),
len = strlen (but),
len(t = 0 ; 1 < len , 1++) {
   if(t (but + 1) == '\')
   *(but + 1) = '\';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 // Find = in Def file statement
int FindEQ(char *data)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "src = '#';
line->add = stralloc(src),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        else if (data == '\n') {
buf[i] = '\0';
return(0);
                                                                                                                                                                                                                                                  int no,
int option;
char *add;
struct _Line *next;
Line, *PLine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           )
buf{1 - 1} = '\0';
return(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                 return((PLine)NULL);
                                                                                                                                         char app_name[1024];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             buf[1] = data;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 nt 1;
```

```
print['Error dynaob]: wrong argments. Should give 2 or 3 argments \n^1;
print['In case of an application, argments are direcory_of_object_files /a or /A def file pat
h name\n^1;
                                                                                                                                                                                                                                            printi('in case of an Empty dynatab.db), argments are directory /e or /E\n'); ext(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /* Get full path def file */
Readinef(p, buf.1034); // first line should be def file full path name
strcpy(file, &buf(1)); // first Readinef(p, AppMane, 1024);
Readinef(p, AppMane, 1024);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GetRealAPPName(AppName),
ReadLine(ip, buf.1024), /* Exports string ignore */
ReadLine(ip, buf.1024), /* Reports string ignore */
def = Loadbeftlatinovhemory(ip): /* Read All function lines */
fclose(fp).
MakeNow_leName(ile, "!);
MakeNow_leName(ile, "!);
MakeAppRegName(file, "!);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        for( , , ) (
memset(file,0x00,1024),
                                                                                                                                                                   if (argc < 2 || argc > 4) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CloseDebug();
exit(1),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CloseDebug(), exit(1),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CloseDebug(),
exit(1),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            else (
goto Error;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OpenDebug();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             goto End;
                                                                                write = 1;
flg = 0;
   FILE *fp;
PLine now;
                                                                                                                                                                                                                                     // Make Registry Application Name
void MakeAppRegName(char "path,char "name,char "appregname)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Dynamize Make a Dynatab db) and change object (*.obj) tile to dynamized object file (*db)).
Dynamized Object file is the all of symbols which are defined in the object file, point to Dynatob.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Argments
director_of_object_file /a def_file_path_name
directory_of_object_file /e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         int i,len;
lot = strien(file) + 1.
for( 1 = len i 1 > 0 : 1 -- ) {
    if(r(ile + 1) == '\'' || *(file + 1) == '\'') {
        Dreak;
    }
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              void MakeNewFileName(char *file,char *newname)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      void MakeOneDynaTable(char *symbol_name);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               void main(int arge , char "argv[])
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  id GetRealAPPName(char *appname)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .nt 1, len. flg;
char buf[1024];
flg = 0;
len = strinfoppname);
for(1 = 0, 1 < len, 1);
len flet ppname + 1) == ''') {
len flg = 1, 1;
len flg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if(1 '= 0)
strcpy(file + 1 + 1, newname),
else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (appname + i) = '\0';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         strcpy(buf,appname + flg);
strcpy(appname,buf);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  char file[1024];
char dbjf[1024];
char buf[1024],
char Appkhame[1024],
HNNJZ FIND_DATA dir,
HANDLE data;
nit write; flg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      strcpy(file,newname);
return((PLine)top);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            static Pline def.
                                                                                                                                                                                         int i, len,
                                                                                                                                                                                                                                                                                                                                                                                                                              ^_
```

```
PLine now;
if(fname[0] == '';) {
  for(now = def ; now ; now = now->next) {
    if(stromp(now->fname, &fname[1]) == 0)
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // Hake Dynatable */
/* Hake Dynatable */
/* HakeoneDynaTable(now->fname);
                                                                                                                    map_file(file);
GetSymbolTableFromHeader(0),
WriteDataToFile(db)f),
else ( / Not Need Dinamized */
map_file(db)f);
GetSymbolTableFromHeader(1);
                                                                                                                                                                                       init_contorl_table();
if(FindNextFile(data,&dir) == FALSE)
break;
                                                                                                                                                                                                                                                                                                                           End.
GetCurrentDirectory(1024,file);
strcat(file, 'Nyarab.db'');
strcat(file, 'Dyarab.db'');
writeDynaObject(file,flg);
// printf('DynaGenerate Dome\n');
                                                                                                                                                                                                                                                                                                                                                                                                                         int FindInDef(char "fname)
                                                                                                                                                                                                                                                                                                                                                                                            CloseDebug();
exit(0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      )
return(0);
```

```
fclose(fp),
ifclose(fp),
ifclose(fp),
return(1),
else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PIMAGE_SECTION_HEADER pSections, pSections = (PIMAGE_SECTION_HEADER);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PIMAGE_SFCTION_HEADER pSections;
Sections + (FIMAGE_SECTION HEADER) (ocontrol.pImageFileHeader+1);
return((Ghar *) pSections(Section -1) Name),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      static PIMAGE_RELOCATION GetRelocationDataFromSection(int section,
int *reloc_no)
static char * GetSectionNameFromSectionNo(int section)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cdata = (unsigned char *)ocontrol.plmageFileHeader;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if((fp = fopen(file_name, "rb")) == NULL) (
    printf("Can not find %s file\n", file_name),
    exit(1);
                                                                                                                                                                                                                                                                                                                                                                                  /* Find source string from target string */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          fseek(fp,0L,2); /* Go to end of file */
ocontrol size = size = ftell(fp);
rewind(fp),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           for(1 = 0 ; 1 < tlen ; i++ ) {
   if(*(target + 1) == *(source + 1)) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   *(cdata + 1) = (unsigned char)data;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /* Memory Map */
for( 1 = 0 , 1 < $12e ; 1++) (
data = fgetc(fp);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        int map_file(char *file_name)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           int 1.3, slen, tlen;

slen = strlen(source),

tlen = strlen(target);

) = 0;
                                                                                                                                                                                      stropy(new_buf,buf);
return((char *)new_buf);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    int i;
int data,size;
unsigned char *cdata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          if () >= slen)
return(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              return(0),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                else
j = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         return(0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILE *fp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            void CreateDynaObject(int index.int flg), static void SeffitingTable, int cSymbols), static void SeffitingTable(FIMACE_SYMBOL_PSymbolTable, int cSymbols.int flg), static int GetSymbolTable(FIMACE_SYMBOL_DSymbolTable, int cSymbols.int flg), void MakeStringChanIn(SYMBOL_CHAIN now,char "symbol_name,int size);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FREIOC_CHAIN topre!;

FREIOC_CHAIN topre!;

FREIOC_CHAIN topre!;

FREIOC_CHAIN topre!;

FREIOC_CHAIN tops.

FRYBBOL_CHAIN tops.

STRING_CHAIN tops.

INT TOP_CHO.

INT TOP_CHO.

INT TOP_CHO.

INT TOP_CHO.

INT TOP_CHO.

INT TOP.

INT TOP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    #define DYNAFLAY_SIG 'DynaFlay(TM) by SegaSoft(C) T.K' #define SIG_SIZE 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      typedef struct _symbol_name_chain {
    char *symbol_name;
        struct _symbol_name_chain *next,
        struct _symbol_name_chain *next,
        symbol_name_chain, *PSYMBOL_NAME_CHAIN;
                          Common.c Takash Kosaka 1996 SegaSoft Inc
Takash Kosaka 1996 SegaSoft Inc
define WINDOWS
# Include (WINDOWS.h>
# Include (String.h>
# Include (String.h) # In
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            typedef struct _string_t_chain {
    char *name;
    struct _string_t_chain *next;
    struct _string_t_chain *next;
    struct _taring_t_chain, *PSTRING_T_CHAIN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        typedef struct _symbol_chain {
    PIMAGE_SYMBOL symbol;
    struct _symbol_chain *next;
    SYMBOL_CHAIN, *PSYMBOL_CHAIN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         *ypedef struct _reloc_chain {
    PIMAGE_RELOCATION reloc;
    struct _reloc_chain *next;
    reloc_CHAIN, *PRELOC_CHAIN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          typedef struct _data_charin ( unsigned char *data;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         struct _data_charın *next;
DATA_CHAIN, *PDATA_CHAIN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      char *stralloc(char *buf)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             !include "common.h"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            #include <stdio.h>
```

```
/* memory get */
lf(locontrol.pImagePileHeader = (PINNGE_FILE_HEADER)malloc(size)) == NULL) (
printf('can not make a memory !!! \n^1),
exit(1);
```

```
for( , 1 < ocontrol size ; 1++ ) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ror(1 = 0 , 1 < s1ze , 1++ ) (
putc(*data++,fp);
}</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    unsigned char 'tmp, null, PSYMBOL CHAIN now, PSTRING_T_CHAIN snow;
                                                                                                                                                                                              PSYMBOL_CHAIN now,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tmp += 4,
                                                                                                                                                                                                                                                                                                                                                                 exit(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1f(size > 7) {
1f(size > 7) {
    print("Can not make memory for STRING_T_CHAIN) | == NULL) (
    print("Can not make memory for STRING_T_CHAIN \n");
    exit(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PSYMBOL_CHAIN now,

if(ReplaceSymbolIDinRelocation(symbol_id,ocontrol NextSymbolNumber)) {

if(Inow = (PSYMBOL_CHAIN)malloc(sizeof(SYMBOL_CHAIN))) == NULL) {

exit(1);

exit(1);
                                                                                                                                                                                        1f((now->symbol = (PINAGE_SYMBOL)malloc(streof(IMAGE_SYMBOL)))
== NULL) (
printf('can not make memory for IMAGE_SYMBOL \n'),
exit(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      void MakeUndefineSymbolString(PSYMBOL_CHAIN now,char *symbol_name)
/* If old_id is in relocation, return l othtewise 0 */
static int ReplaceSymbolIDInRelocation(DWORD old_id,DWORD new_id)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       inow-next = (PSTRING.T.CHAIN)NULL;

If (occurre).topstring) occurre).topstring = snow;

If (occurre).topstring) occurre).oldstring->next = snow,

snow->name = stralloc(symbol_name);

now->symbol->N Name.Short = 0;

now->symbol->N Name.Short = 0;

occurre).NextStringIndex;

occurre).NextStringIndex = slie;

occurre).NextStringIndex = slie;

occurrel.Oldstring = snow;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ) w-snext = (PSYMBOL_CHAIN)NULL; one-spendo.1-vblue = 0x0000; now-ssymbol-sectionNumber = IMAGE_SYM_UNDEFINED, now-ssymbol-sforgae(lase = IMAGE_SYM_CLASS_EXTERNAL; now-ssymbol-storage(lase = IMAGE_SYM_CLASS_EXTERNAL; now-ssymbol-shumberOfAkuxSymbols = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 strcpy((char *)now->symbol->N.ShortName,symbol_name);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                void MakeUndefineSymbol(char 'symbol_name,int symbol_id)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            int size;
pstring_T_CHAIN snow;
size = strlen(symbol_name) + 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return(ret);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        reloc**;
```

```
i((econtrol.topsymbol || ocontrol topstring) (
//print[["New String Table Size" %d \n".ocontrol NewStringTableSize"),
writeRowData(fp.(unsigned char ")&ocontrol.NewStringTableSize.4),
1 = 4,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if((now-saymbol = (PINAGE_SYMBOL)malloc(streef(IMAGE_SYMBOL))) == NULL) (print(f'Can not make memory for IMAGE_SYMBOL \n');
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ocontrol.plmagePileHeader->NumberOfSymbols = ocontrol NextSymbolNumber;
                                                                                                                                                                                                                                                    /* for DynaTab.ob) */
PIMAGE_SYMBOL MakeNewDefineSymbol(char *symbol_name,long add,int section)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /- Write NewSymbol Table -/ forfnow , now = now->next) {
forfnow = ocontrol copsymbol , now , now = now-simbol,sizeof(IMAGE_SYMBOL)),
WriteRowbasef(p,(unsigned char ')now->symbol,sizeof(IMAGE_SYMBOL)),
                                                                                                                                                                                                                                                                                                                                                     f((now = (PSYMBOL_CHAIN)malloc(sizeof(SYMBOL_CHAIN))) == NULL)
print(f("can not make memory for SYMBOL_CHAIN \n");
exit(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              )

now->next = (PSYMBOD,_CHAIN)NULL;

now->symbol->vSact.onNumber = section;

now->symbol->Sect.tonNumber = section;

now->symbol->Fyre = 0x002,

now-symbol->Fyre = 0x002,

if(object topsym = now;

object oblasym) object closym = now,

object symbol_Index +*;

size = strlen(symbol_Index +*;

haksetrinGhain(now,symbol_Index +*;

return((PIMAGE_SYMBOL)now->symbol);
if(!ocontrol.topsymbol ocontrol.topsymbol = now;
if(ocontrol.oldsymbol ocontrol.oldsymbol->next = now;
ocontrol.oldsymbol = now;
ocontrol.oldsymbol = now;
MakeUndefineSymbolNumber**;
MakeUndefineSymbolString(now,symbol_name),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ord WriteRowData(FILE 'fp, unsigned char *data,int size)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /* Memory Map */
for(1 = 0, 1 < ocontrol EndofSymbolTable , 1++) {
for(1 = 0, 1 < ocontrol EndofSymbolTable , 1++) {
purc (data,fp),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    tmp = (unsigned char *)ocontrol plmageFileHeader;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if((fp = fopen(file_name,"wb")) == NULL) (
    printf("Can not find %s file\n",file_name)
    exit(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          yold WriteDataToFile(char *file_name)
```

```
1f((snow = (PSTRING_T_CHAIN)malloc(sizeof(STRING_T_CHAIN))) == NULL) (
printf("Can not Make Memory for STRING_T_CHAIN\n");
exit(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              return((char *)ocontrol.PCOFFSymbolTable[index].N.ShortName) else
                                                                                                                      for(snow = ocontrol.topstring , snow - snow = snow->next) {
   WriteRowData(fp,snow->name, strlen(snow->name) + 1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   symbol = (PINAGE_SYMBOL)&ccontrol PCOFFSymbolTable(index);
now_symbol_name = LookupSymbolName(index);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          lf((new_symbol_name = (char *)malloc(len)) == NULL) (
print("Can not Make a Memory for new Symbol Name\n"),
exit(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | John State | PSTRING_T_CHAIN)NULL, |
If(!cocntrol.lopstring) | Cocntrol.lopstring = Snow; |
If(!cocntrol.oldstring) | Cocntrol.oldstring->next = Snow; |
If(cocntrol.oldstring = Snow = Snoo 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             symbol->N.Name.Short = 0;
symbol->N.Name.Long * coontrol.NextStringIndex;
coontrol.NextStringIndex += len;
coontrol NewStringFableSize += len,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          strcpy(new_symbol_name, 'PDYNA'),
1f(now_symbol_name[0] == '_')
strcat(new_symbol_name, know_symbol_name[1]);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      streat(new_symbol_name,now_symbol_name),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   static char * SetDYNASymbolName(DWORD index)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           static char * LookupSymbolName(DWORD index)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PINAGE_SYMBOL symbol;
PSTRING_T_CHAIN snow;
char 'now_symbol_name; "new_symbol_name;
int len;
                                                                                                                                                                                                                                                                                                 /* Dynapley Signiture */
writeRoblex (Fp. Dynaplex SIG_SIZE);
mull = 00;
writeRoblex (fp. fmull, 1);
Gloset(p);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          lf(now_symbol_name[0] == '_.')
len = strlen(now_symbol_name) + 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           _-
len = strlen(now_symbol_name) + 6,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     shortname(1) = '\0';
return(shortname);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              static char shortname[9];
data = (int)*tmp++;
putc(data,fp);
```

s

```
int string table apparently starts right after the symbol table "/
" The string table apparently starts right after the symbol table "/
coontrol stringfable = (SFSF)&FSPMD1Table(SYMBOD1S);
coontrol stringfable = (int)coontrol.stringfable - (int)coontrol.plmageFlleHeader,
memcpy(stare_coontrol_stringfable.4);
memcpy(stare_coontrol_stringfable.4);
memcpy(stare_coontrol_stringfable.4);
memcpy(stare_coontrol_stringfable.4);
memcpy(stare_coontrol_stringfable.4);
memcpy(stare_coontrol_stringfable.4);
memcpy(stringfable.4);
memcpy(stare_coontrol_stringfable.4);
memcpy(stare_coontrol_stringfable.4);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            static int GetSymbolTable(PIMAGE_SYMBOL pSymbolTable, int cSymbols,int flg)
strcpy(shortname,ocontrol PCOFFSymbolTable(index).N ShortName),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        static void SetStringTable(PIMAGE_SYMBOL pSymbolTable, int cSymbols)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PINAGE_SECTION_HEADER pSections; plants plan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              for ( 1 = 0; 1 < cSymbols; 1**) {
    symbol_name = LookbySymbolName(1),
    if(pSymbolTable->SectionNumber > 0 &6
    if(pSymbolTable->SectionNumber > 0 &6
    iSFCN(pSymbolTable->Type)) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         strrev(ocontrol stringTable + ocontrol.PCOFFSymbolTable[index].N.Name Long);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  static void ChangeSectionTableAttribute(WORD section)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   int 1;
char *symbol_name,
// char * dynaplay_call_symbol,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             int FindInDef(char *fname);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               _strrev(shortname);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return(shortname),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                end1 f
```

```
add = ocontrol pimageFileHeader->PointerToSymbolTable;
ocontrol PCOFFSymbolTable = MakePtr(PIMAGE_SYMBOL, ocontrol.plmageFileHeader,
add);
ocontrol.NextSymbolNumber = ocontrol CrefSymbolCount,
setStringFable(ocontrol PCOFFSymbolTable, ocontrol.COFFSymbolCount),
return(GetSymbolTable(ocontrol PCOFFSymbolTable, ocontrol.COFFSymbolTount, flg)),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       static int IsDynaPlaySymbolBigAddr(int symbol_id,int section,DWORD Addr)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ocontrol.COFFSymbolCount = ocontrol.plmageFileHeader->NumberOfSymbols;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      reloc = GetRelocationDataFromSection(section, inumberofreloc);
for[ 1 = 0 , 1 < numberofreloc; 1++ ) {
   if(int)Feloc-SymbolTableIndex == symbol_id) {
   if(int)Feloc-SymbolTableIndex == symbol_id) {
   if(eloc-VirtualAddress > Addr)
   ifeloc(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1f(inow = (PDATA_CHAIN)malloc(sizeof(DMTA_CHAIN)) == NULL)
print('Can not make memory for PDATA_CHAIN \n');
exit(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if(inow->data = (unsigned char *)malloc(size)) == NULL) (
printf("Can not make memory for RowData \n");
exit(1);
/* Take into account any aux symbols "/
i *= pSymbolTable-NumberOfAuxSymbols;
pSymbolTable += pSymbolTable-NumberOfAuxSymbols,
pSymbolTable**
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      now->next = (FDATA_CHAIN)NULL;

now->next = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = $122 = 
                                                                                                                                                                                                                                                                                                                                                                                                               int GetSymbolTableFromHeader(int flg)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Object.next_data_add += size,
Object.top_symbol_add += size;
Object.top_reloc_add += size,
Object oldd = now;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    int i,numberofreloc;
PIMAGE_RELOCATION reloc;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          void MakeRowDataChian()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PDATA_CHAIN now;
int size = 8,
                                                                                                                                                                                                                                     return(0),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 reloc++,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      return(0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              int add;
```

```
PSTRING_T_CHAIN SDOW;
lf(Size > 7)
lf(Size > PSCRING_T_CHAIN)malloc(Sizeof(STRING_T_CHAIN))) == NULL) {
prinf(Can pot make memory for STRING_T_CHAIN \n^1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if (now->reloc = (PIMAGE_RELOCATION)malloc(sizeof(IMAGE_RELOCATION)))
== NULL) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       void MakeStringChain(PSYMBOL_CHAIN now, char *symbol_name, int size)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         stif(now = (PRELOC_CHAIN)malloc(sizeof(RELOC_CHAIN))) == NULL) (
printf("Can not make memory for RELOC_CHAIN \n");
exit(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if((now = (PDATA_CHAIN)malloc(sizeof(DATA_CHAIN))) == NULA) (
    print("Can not make memory for PDATA_CHAIN \n");
    exit(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if(inow->data = (unsigned char *)mailoc(size)) == NULL)
print("Can not make memory for RowData \n");
exit(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      now->next = (PRELOC_CHAIN)NULL;

If('Object toprel) Object toprel = now,

If('Object toprel) Object oldrel->next = now;

Object top.of_reloc **;

Object top.of_reloc **;

Object toldrel = now,

return((PRELOC_CHAIN)now),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              printf("Can not make memory for RELOCATION \n"); exit(1),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              now->next = (PSTRING_T_CHAIN)NULL:
if(iObject topst = snow,
if(Object.oldst) Object oldst->next = snow;
snow->name = stralloc(symbol_name);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   now->size = size;
now->size = (ppra_chain)Null,
now-next = (ppra_chain)Null,
if (Object_code) Object.topd = now,
if (Object_code) Object.topd=>now,
strepy(now-odate,name);
Encodestrain(now-odate,name);
(Object.top_xymbol_add += size;
(Object.top_xymbol_add += size;
(Object.top_reloc_add += size;
(Object.top_reloc_add += size;
                                                     int len.1;
unsigned chardd.ll,
len = strlenistring);
forti = 0; i < len; i...) {
dd = (unsigned char)*(string + 1),
ll = 0x01 & dd = (d > 1);
(string + i) = dd > 1 | dd << 7;
                                                                                                                                                                                                                                                                                                                                                        void MakeRowDataChianByName(char *name)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRELOC_CHAIN MakeRelocationChian()
void EncodeString(char *string)
                                                                                                                                                                                                                                                                                                                                                                                                                                              int size;
size = strlen(name) + 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRELOC_CHAIN now;
                                                                                                                                                                                                                                                                                                                                                                                                                  PDATA_CHAIN now;
```

```
if(symbol_name[0] != '?') {
   if(org_name = (char *)malloc(strlen(symbol_name) + 2)) == NULL) {
        printf('can not Make new symbol name Memory \n');
        ext(1);
        ext(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1f(inow = (PSYMBOL_CHAIN)malloc(sizeof(SYMBOL_CHAIN)) == NULL)
print('Can not make memory for SYMBOL_CHAIN \n');
exit(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if((now->symbol = (PIMAGE_SYMBOL)malloc(sizeof(IMAGE_SYMBOL)))
printf("can not make memory for IMAGE_SYMBOL \n");
ext(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Object top_reloc_add = szeof(HakGE_SIZEOF_SECTION_HEADER; szeof(HakGE_FILE_HEADER) + IMAGE_SIZEOF_SECTION_HEADER; object.top_reloc_add;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PSYMBOL, NAME, CHAIN now, for i now ; now = now->next) (for[now = Object.topsymboln, now; now = 0) return(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       size = strlen(symbol_name) + 1;

now--symbol--Yolue = 00)set.next_data_add,

now--symbol--SectionNumber = 1;

now-symbol--StorageClass = IMAGE_SYM_CLASS_EXTERNAL;

now-symbol--NumberOfAuxSymbols = 0;

MakeStringChant(now, symbol_name, size);

Object symbol_index+++

MakeRowDataChianByName(' ' '),
                                                                                                                                                                      lf(inew_name = (char *)malloc(len)) == NULL) (
printf "Can not Make new symbol name Memory \n");
exit(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           strcpy(new_name,"?DYNA"),
strcat(new_name,symbol_name);
MakeSymbolChainWithRelocation(org_name,new_name);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   now->next = (PSYMBOL_CHAIN)NULL,
1/(1/Object.clopsym) Object.lopsym = now;
1/(1/Object oldsym) Object.oldsym->next = now;
Object.oldsym = now;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        static int FindSameSymbol(char *symbol_name)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MakeSymbolChain("_DynaMizedAPPMain"),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           void MakeSymbolChain(char * symbol_name)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /* This function Must call at first */
void DynaMaizedAPP()
void MakeOneDynaTable(char *symbol_name)
                                                                                                                                                                                                                                                                                                                                                                                                                             strcpy(org_name,"_");
strcat(org_name,symbol_name);
                                                                                                               int len:
len = strlen(symbol_name) + 6,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              org_name = symbol_name;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PSYMBOL_CHAIN now;
int size;
                                                       char *new_name,
char *org_name,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1f(|now->next = (PSYMBOL_CHAIN)malloc(sizeof(SYMBOL_CHAIN))) == NULL) (
print('Can not make memory for SYMBOL_CHAIN \n');
exit(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 f(inow = (PSYMBOL_CHAIN)malloc(sizeof(SYMBOL_CHAIN)) == NULL)
print('Can not make memory for SYMBOL_CHAIN 'n'');
exit(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if((now->symbol = (PIMAGE_SYMBOL)malloc(sizeof(IMAGE_SYMBOL)))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        now->next->next = (PSYMBOL_CHAIN)NULL;

(D)ject oldsym = now->next.

now->next-symbol->vlaive = 0x0000;

now->next->symbol->vlaive = 0x0000;

now->next->symbol->fype = 0x0000,

now->next->symbol->fype = 0x0000,

now->next->symbol->StorageClass = INAGE_SYM_CLASS_EXTERNAL,

now->next->symbol->NumberOfAuxSymbols = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    size = strlen(symbol_name) • 1;

now_row_add = now_row_symbol_value = object.next_data_add;

now_row_mool - SectronNumbor = 1;

now-symbol - SectronNumbor = 1;

now-symbol - StorageClass = INAGE_SYM_CLASS_EXTERNAL;

now-symbol - ShumberofAuxSymbols = 0;

MakeRowals acfinan() symbol_name, size);

//WriteSymbolName(symbol_name);

//Wor need symbol Name (or DynaTable •/

//MakeRowabataChianByName(symbol_name);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /* relocation table */
liow = MakeRelocationChait(),
liow-zeloc-VirtualAddress = now_row_add * 1;
liow-zeloc-VirtualAddress = now_row_add * 1;
liow-zeloc-SymbolTableIndex = Object symbol_index * 1,
liow-zeloc-Sympe = INMOSERL_I386_DIR32;
size = stilen(now_name) * 1,
MakeStringChain(now-znext,new_name,size);
                                                                                                                                                                                                                                                                                                                    void MakeSymbolChainWithRelocation(char * symbol_name,char (
                                                                                                                                                                                 strcpy((char *)now->symbol->N.ShortName,symbol_name);
}
             now->symbol->N.Name.Short = 0;
now->symbol->N Name.Long = Object.next_string_index;
lobject.ext._string_index += size;
Object.stringtable_size += size;
Object.oldst = snow;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            printf("Can not make memory for IMAGE_SYMBOL \n"); exit(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      printf("Can not make memory for IMAGE_SYMBOL \n"); exit(1),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                now-snext = (PSYMBOL_CHAIN)NULL;
1f(10bject.topsym) Object topsym = now;
1f(0bject.oldsym) Object.oldsym-snext = now;
Object.oldsym = now;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /* Make Dynatable in Dynatab db] */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Object.symbol_index += 2;
                                                                                                                                                                                                                                                                                                                                                                                                 PSYMBOL_CHAIN now;
PRELOC_CHAIN lnow;
int size,now_row_add,
```

```
strcpy(crt Name. CRTSXCU.),
crt Mac Phys.calAddress = 0;
crt VirtualAddress = 0;
crt VirtualAddress = 4;
crt SizeO(RawData = 4;
crt SizeO(RawData = 10,
crt SizeO(RawData = 10,
crt SizeO(RawData = 10,
crt NumberO(Rablocations = 10,
crt. NumberO(Extended = 10,
crt. Characterstics = 0x00300040,
crt. Characterstics = 0x00300040,
crt. Characterstics = 0x00300040,
crt. Crabacterstics = 0x00300040,
crt. Crabacterstics = 0x00300040,
crt. Crabacterstics = 0x00300040,
crt. Crabacterstics = 0x0030040,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /* INVGE_RELOCATION text_reloc_dynamized = (0x00000007.0.TRACE_REL_1386_DIR32), INVGE_RELOCATION text_reloc_Anit = (0x00000000.0x00000000.TRACE_REL_1386_DIR32), INVGE_RELOCATION text_reloc_dynamain = (0x00000011.0x000000001.MAGE_REL_1386_DIR32).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /* Relocation Settling *
IMAGE_RELOCATION text_reloc_dynamized = (0x0000010,0,1MAGE_REL_1386_DIR32);
IMAGE_RELOCATION text_reloc_app_name = (0x00000006,0,1MAGE_REL_1386_DIR32);
IMAGE_RELOCATION text_reloc_app_name = (0x000000006,0,1MAGE_REL_1386_DIR32);
IMAGE_RELOCATION text_reloc_dynamain = (0x000000010,0,1MAGE_REL_1386_DIR32);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      + sizeof(IMAGE_SECTION_HEADER) * 3,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  //strcpy(text Name. * rdata*);
strcpy(text Name. * rext');
text Misc.PhysicalAddress = 0,
text NiroubAddress = 0;
text SizeOffswolata = app.ingae_size,
text prointerToRwabata = row_add,
text PointerToRwabata = row_add + app.imgae_size,
                                                                                                                                 /* Only One rime Called */
IMAGE_SECTION HEADER CT.
IMAGE_RELOCATION CT.Leloc = (0.0.IMAGE_REL_I186_DIR32);
UNS.grad char crt_row|] = (0x00.0x00.0x00.0x00);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         row_add += sizeof(IMAGE_RELOCATION) + 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 unsigned char text_row[] = (0x68, 0x 0x68, 0x 0x68, 0x 0x68, 0x 0x68, 0x 0xb8, 0x 0xff, 0x 0xff, 0x 0xff, 0x 0xff, 0x 0x63, 0x7, 0x90, 0x8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 row_add = Object top_symbol_add
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     void CreateDynaTableCallSection()
*(data + 3) = 0x000000FF & atai;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         text NumberOfRelocations = 4,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         int row_add;
PIMAGE_SYMBOL symbol,
/* IMAGE_AUX_SYMBOL aux, */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IMACE_SECTION_HEADER dataa,
unsigned char *data_row,
int sizeofdata_row;
int AddSectionSize = 0,
extern char app_name[256];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IMAGE_SECTION_HEADER text;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 #define app_imgae_size 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     else (/* Already DynaHized file */
else = stralloc(RealSymbollame(LookupSymbolName(index))); /* Get Undynamized name */
org_name = stralloc(RealSymbollame(LookupSymbolName(if(FindSameSymbollorg_name)) (
if(FindSameSymbollorg_name)) (
if(Inow = (PSYMBOL_NAME_CHAIN)) == NULL) (
if(Ino
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Object top_reloc_add = sizeofIMAGE_SIZEOF_SECTION_HEADER; sizeofIMAGE_FILE_HEADER) + IMAGE_SIZEOF_SECTION_HEADER; Object top_symbol_add = Object.top_reloc_add;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      now->symbol_name = org_name,
now->next = (FSYMBOL_NAME_CHAIN)NULL,
if (tobject copsymboln) Object topsymboln = now,
if (tobject oldsymboln) Object.oldsymboln->next = now,
Object oldsymboln = now;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               now-ssymbol name = orgn name.

14(0b)ect.copsymboln Object.copsymboln = now;

15(0b)ect.codsymboln Object.coldsymboln = now;

Object.oldsymboln Object.oldsymboln-snext = now;

Object.oldsymboln = now;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         new_name = LookupSymbolName(index);
//MakeSymbolChainWithRelocation(org_name,new_name),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              new_name = SetDYNASymbolName(index),
//print('UpinaTable'symbol's Ninew_name);
//mkesymbolChainWithRelocation(org_name,name);
MakeUndefineSymbol(org_name,index);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if('fig) ( /* Not Dynamized file */
  org_name = stralloc(LookupSymbolName(index));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   void my_memcpy(unsigned char *data,int atai)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                void CreateDynaObject(int index,int flg)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              char * RealSymbolName(char *symbol_name)
                                                                                                                                                                                                     /* This function Must call at first */
void DynaModAPP()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MakeSymbolChain("_DynaModAPPMain");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  *data = 0xFF00000 & atal,
 *(data + 1) = 0x00FF0000 & atal;
 *(data + 2) = 0x0000FF00 & atal,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               else (
SetDYNASymbolName(index);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if("symbol_name == '_')
    strrev(symbol_name + 1);
else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PSYMBOL_NAME_CHAIN now, char *org_name;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return(symbol_name + 5);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      _strrev(symbol_name);
                                                      return(0);
```

```
//printf("Real Sizeof RowData. %x Start Relocation: %x \n", ftell(fp) - file_p, ftell(fp));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   writeRowData(fp,(unsigned char *)&text_reloc_dynamized.sizeof(IMAGE_RELOCATION));
WriteRowData(fp,funsigned char *)&text_reloc_app name_sizeof(IMAGE_RELOCATION));
WriteRowData(fp,funsigned char *)&text_reloc_app name_sizeof(IMAGE_RELOCATION));
WriteRowData(fp,funsigned char *)&text_reloc_dynamin.sizeof(IMAGE_RELOCATION)),
WriteRowData(fp,funsigned char *)&text_reloc_dynamin.sizeof(IMAGE_RELOCATION)),
WriteRowData(fp,funsigned char *)&text_reloc_dynamin.sizeof(IMAGE_RELOCATION)),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /* printf("Set relocation Offset: %x\nSizeof RowData:%x\nSymbol Table Offset: %x\n", sectionheadr.PointerToRelocations, sectionheadr.SizeofRawData, header.PointerToSymbolTable);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WILLEROWDELE(fp, (unsigned char *)&sectionheadr, IMAGE_SIZEOF_SECTION_HEADER);
WILLEROWDELE(fp, (unsigned char *)&crt_IMAGE_SIZEOF_SECTION_HEADER);
WILLEROWDELE(fp, (unsigned char *)&crt_IMAGE_SIZEOF_SECTION_HEADER),
WILLEROWDELE(fp, (unsigned char *)&dataa, IMAGE_SIZEOF_SECTION_HEADER);
WILLEROWDELE(fp, (unsigned char *)&dataa, IMAGE_SIZEOF_SECTION_HEADER);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /* String Table */
for( string = Object.copst ; string , string = string->next) {
    whreRowabea((F. Unisigned char *)string->name, strlen(string->name) * 1);
    end == strins(string->name) * 1;
stricty(sectionheadr.Name,'.data');
stricty(sectionheadr.Name,'.data');
sectionheadr Misc PhysicalAddress = 0;
sectionheadr VirtualAddress = 0;
sectionheadr.SizeofReadera = 0);ect.next_data_add,
sectionheadr.SizeofReadera = 0);ect.next_data_add,
sactionheadr.PointerToRadorea = 0);ect.top_reloc_add + AddSectionSize;
sectionheadr.PointerToRadorations = 0);ect.top_reloc_add + AddSectionSize;
sectionheadr.NumberCofilelocations = 0);
sectionheadr.NumberCofilelocations = 0);
sectionheadr.NumberCofilelocations = 0);
sectionheadr.NumberCofilelocations = 0;
sectionheadr.NumberCofilelocations = 0;
sectionheadr.NumberCofilelocations = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /* Relocation Table */
for freloc = Object toprel ; reloc : reloc = reloc->next) {
    writeRowData(fp, unsigned char *) reloc ->reloc, sizeof(IMAGE_RELOCATION));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               for(symbol = Object.topsym ; symbol ; symbol = symbol->next) {
    WriteRowData(fp, (unsigned char *) symbol.>symbol, sizeof(IMACE_SYMBOL)),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Object.stringtable_size += 4,
WriteRowDeta(fp, unsigned char *)&Object stringtable_size,4);
//printf(*Size of String Table: %d \n*,Object.stringtable_size);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WriteRowData(fp, (unsigned char *)text_row,app_imgae_size);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WriteRowData(fp,(unsigned char *)data->data->size);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /* Row Data */
for(data = Object topd); data; data = data->next) {
   if(data == Object.topd) {
    my_memcpy(data->data + 1,Object.no_of_reloc);
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 //printf("Real Start Symbol Table: %x \n", ftell(fp));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  //printf("Real String Table Size: %d \n", end);
end = 0x00;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            file_p = fcell(fp);
//printf("Real Start RowData:%x \n",file_p);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              //WriteRowData(fp, (unsigned char *)&end,1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         * Symbol Table */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        fclose(fb);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Object.top_symbol_add += (sizeof(IMAGE_SECTION_HEADER) + sizeof(INAGE_RELOCATION) * 4 + app_imga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WriteRowData(fp, (unsigned char *)&header,sizeof(IMAGE_FILE_HEADER));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      text_reloc_dynamain.SymbolTableIndex = Object.symbol_index;
symbol = MakeNewDefineSymbol('_dynaplay_main',0,0);
symbol->SectionNumber = IMAGE_SYM_UNDEFINED;
                                                                                                                                                                                                                  text_reloc_app_name.SymbolTableIndex = Object.symbol_index,
symbol = MakeNewDefineSymbol('$$AplicationName',9,4);
symbol->Type = 0; /* Application name data "/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              =_s1ze);
row_add += sizeof(IMAGE_RELOCATION) * 4 + app_imgae_s1ze;
                                                                                                                                                                                                                                                                                                                                                                                                  text_reloc_init SymbolTableIndex = Object.symbol_index;
symbol = MakeNewNefineSymbol('$5DynaInit',0,4);
symbol->Type = 0; /' Name of init.dat Data '/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     header.TimeDateStamp = 0x31fa92a2,
header PointerTroSymbolTable = 0bject top_symbol_add,
header.PointerTroSymbolTable = 0bject.top_symbol_add,
header.NumberOfSymbolS = 0bject.symbol_index;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                if((fp = fopen(name,"wb-)) == NULL) (
    printf("Can not Create %s file\n",name);
    exit(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       void WriteDynaObject(char *name,int flg)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sizeofdata_row= 10 + strlen(app_name);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              int file_p;
Int fi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          header.SizeOfOptionalHeader = 0;
header Characteristics = 0,
                                                                                                   text.NumberOfLinenumbers = 0,
text.Characteristics = 0x60500020;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if(flg == 1)
CreateDynaTableCallSection();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          lf(flg == 0)
header.NumberOfSections = 0,
else if( flg == 1)
header NumberOfSections = 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      strcpy(data_row,'init dat"),
strcpy(data_row + 9,app_name);
)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     header Machine = 0 \times 0.14c;
```

14

13

```
// VFS mount flag 1. mounted, other wize not mounted // VFS mount path name;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DilExport int CreateCFS(char 'path, char 'app_name),
DilExport int dynapla, main (char 'file_name, char 'app_name, unsigned char 'table),
DilExport vint dynapla, main (char 'file_name, char 'app_name, unsigned char 'table),
DilExport void int. scheme()
DilExport void int. scheme()
DilExport unsigned long DynaEvalString(const char 'eval_body, int 'type),
DilExport int LoadNewScript(char 'file_name);
fendif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       static Scheme_Object 'anpp_value_stringinit argc, Scheme_Object 'argv), static Scheme_Object 'argv), static Scheme_Object 'argv), static Scheme_Object 'argv); static Scheme_Object 'argv);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Dynallb defines Scheme Functions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             static PDLL_HANDLE top_dll_handle = (PDLL_HANDLE)NULL;
static PDLL_HANDLE old_dll_handle = (PDLL_HANDLE)NULL;
static PAPP_HANDLE top_app_handle = (PAPP_HANDLE)NULL;
static PAPP_HANDLE top_app_handle = (PAPP_HANDLE)NULL;
                                                                                                                                                                                                                                                                                             // Resource Swapping Data structure typedef struct _ResourceSwap { unsigned long int Original;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /* Current Work Spave Directory */
static char CurrentWksDir(1024);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /* Export Functions for Windows */
                                                                                                                                                                                                                                                                                                                                                                 /* Open DLL control strucutre */
typedef struct _dll_handle (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /* Application control handle */
typedef struct _app.handle {
    unsigned char *app.table;
    char *app.name;
    struct _app.handle *next,
    int vfs_mount_fly;
    char *mount_part,
    App.HANDLE, *PRPP.HANDLE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Jul SizeofDllTable;
pbL_TABLE *01_cable;
vo.d (*diseble func)();
struct _dll_bandle *next;
PResourceSwap Point.#ANBLE;
) DLL_HANBLE;
                                                                                                                                                                  typedef struct _dll_table { int index;
union (
unsigned int add;
unsigned char tadd(4):
                                                                                                                                                                                                                  unsigned char add[4],
) DLL_TABLE, *PDLL_TABLE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      char 'path;
fifdef UNIX_DYNAMIC_LOAD
void 'dll;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HINSTANCE dll;
                                                                                              char buf(3); FTABLE,
                                                                                                       SECASOFT CONFIDENTIAL - Unpublished Copyright (c) [1997], SegaSoft, Inc. All Rights Reserved
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Static PLIST_DYNA_VALUE top_value_list = (PLIST_DYNA_VALUE)NULL; static PLIST_DYNA_VALUE old_value_list = (PLIST_DYNA_VALUE)NULL;
   static Scheme_Env *global_env = (Scheme_Env *)NULL;
                                   dynlib_main.c (dynalib main function)
By Takashı Kosaka (C) SegaSoft INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               __declspec( dllexport )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          typedef struct list_dynaplay_app_value { char value_pointer; int length; int length; char value_name[12]; struct list_dynaplay_app_value *next, llist_DYNA_VALUE, *PLIST_DYNA_VALUE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ifdef AIX_DYNAMIC_LOAD
include "../aixdlfcn/dlfcn h"
define UNIX_DYNAMIC_LOAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /* Function Table */
typedef struct _FATABLE {
  unsigned char top;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ifdef MACINTOSH_SET_STACK
                                                                                                                                                                                                         Andlude scheme.h.

Aidef FILES_HAVE_FDS
Andlude <895/types h>
Include <895/time.h>
Aidef SELECT_INCLUDE
Aidef SELECT_INCLUDE
Andlude <895/select.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                fdef UNIX_DYNAMIC_LOAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            truct many
Include edirect hy
Include edirect hy
Include estdib.hy
Include estdio hy
Include esys/fagt hy
Include esys/fagt hy
Include etrno hy
Include etrno hy
Include etrno hy
Include ewindows.hy
Include ewindows.hy
Idefine bllExport __de
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ef MACINTOSH_EVENTS
lude <Events.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ifdef MACINTOSH_EVENTS
include "simpledrop.h"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          hidef MACINTOSH SIOUX
hnclude <console.h>
                                                                                                                                                                                                                                                                                                                                                                                                 /* CFS Interface */
nclude "cfs.h"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               fdef WIN32
```

```
#define CharFrom4Bytes1(dst.off) \ (*(dst + off) | 6 0x81) | \ (*(dst + 1 + off) & 0x12) | \ (*(dst + 2 + off) & 0x42) | \ (*(dst + 3 + off) & 0x44) | \ (*(dst + 3 + off) & 0x44)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /* src is a Full Size of Char */
unsigned char GetPatcanChar(src,pat)
unsigned char src,pat;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /* src is Harf Size of Char */
unsigned char SetPattanChar(src,pat)
unsigned char src,pat,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                unsigned char ret,mask,mu;

nn = mask = 1;

ret = pa;

for(1 = 0 x < 8; x** ) (

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%for(1 = 0 x < 8; x**
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               mask <<= 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mask <<= 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  return (ret),
            fendi f
/* CFS (vertual file system interface) */
static int CheckrEshadRegistry (utusigned char 'data);
static int CheckrEshadRegistry (utusigned char 'data);
static int Create(FSC (char 'app. name.) PAPP_HANDLE now);
int Create(FSC (char 'app. name);
int Greate(FSC (char 'app. name);
int Get(Eqsistry) (char 'app. name);
static int Check(FSC (char 'app. name);
static int Delete(FSC (char 'app. name);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   fp = fopen('Dynabobug.txt','a*');
fprintf(fp, %d'%d'%d'
fprintf(fp, %d'%d'%d');
fprintf(fp);
format.data);
fend;
fend;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     fp = fopen('Dynabebug txt', a**);
fprint(fp, '%d:%d', dd', tm->tm_hour, tm->tm_min, tm->tm_sec);
fprint(fp, buf);
fclose(fp),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          debug Routine

10efine DynaFrintf(X,Y) dynaprionf(X,(LPVOID *)Y)

void dynaprintf(char formet, LPVOID data)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            fdef _DEBUG
FTLE 'tp:
Clme_t ltlme,
Clme_t'ltlme );
fp = fopen('Dynapebug.txt','w');
fprintf(fp,'DynaPlay Debug %s \n',ctlme( &ltlme ));
fendif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Exculsive Operation for Any Threads
11 fdef USE MINIZ_THREADS
AVERTH NANDE GC_Allocafe_ml.
These Macros are LOCK/UNLOX Process
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  define LOCK(X) \

1f(now|X) \

1f(now|X) \

2f(now|X) \

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        define UNLOCK(X) ReleaseMutex(now##X)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             time( &ltime );
tm = localtime( &ltime );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  time( &ltime );
tm = localtime( &ltime );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        youd DynaDebug(char *buf)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         vold DynaDebugInit()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       #ifdef_DEBUG
FILE 'fp,
time_t ltime;
struct tm *tm;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           lifder_DEBUG
time_t ltime,
struct tm *tm;
FILE *fp;
```

```
PDLL_HANDLE now,
for(now = top_dll_handle ; now , now = now->next) (
inflremp(now->path,path) == 0) [
return((PDLL_HANDLE)now),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     // Delete Dynamodule
static void FreeOpendDLL(PDLL_HANDLE target)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       static PAPP_HANDLE SearchAPP(char *app_name)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     int 1.off;
off = 0;
for(i = 0; i < 64; i ++ ) {
    data[1] = IntFrom8Bytes(dst,off);
    off += 8;</pre>
                                                                                                                                                                                                                                                                                                                                                    off = 0;
for(1 = 0 , 1 < len ; 1++ ) {
st[1] = CharFrom4Bytes1(data,off);
off += 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PDLL_HANDLE SearchOpnedDLL(char *path)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   static void GetRandonValue(dst,data)
unsigned char *dst;
unsigned int data();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     static void RandomValueSet(dst,dd)
unsigned char *dst;
unsigned long dd;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     static char "StringDecode(data)
unsigned char "data;
                                                                                                                                                                                                                                                                                                              len = IntFrom16Bytes(data,0),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       return((PAPP_HANDLE) NULL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return((PDLL_HANDLE)NULL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          old = (PDLL_HANDLE) NULL;
                                                                                                                                                                                                                          static char st[128],
int len,i,off;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         st[1] = '\0';
return((char *)st);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PDLL_HANDLE now;
PDLL_HANDLE old,
off += 16;
                                                                                        /* Initialize Current Wks Dir Current Wks Dir 1s the same directory where application exists */
static void InitCurrentWksDir(char *app_path)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    static void RandomValueSet(unsigned char *dst,unsigned long dd);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ### TITFTOWNERS (##L Off) | 0x6h << 28 | 0xephetunChar("16st off) | 0x6h << 28 | 0xephetunChar("16st off) | 0x75h << 28 | 0xephetunChar("16st off) | 0x75h << 20 | 0xephetunChar("16st off) | 0x75h << 10 | 0xephetunChar("16st off) | 0x75h << 10 | 0xephetunChar("16st off) | 0x75h << 10 | 0xephetunChar("16st off) | 0xeph
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             off = 16;

#Idef _DEBUG

DynaPrintf("Set Now data %x \n", (void *)dd);

#endif

for( 1 = 0 ; 1 < 31; 1++) {

IntTol6Bytes(dd,dst ,off);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               for(off = 0 ; off < 512 , ) (
    fost 1 = 0 ; off < 512 , ) (
    if (off >< 512 )
    chartesh, break, chartesh (src[1],dst,off);
    off *= 4;
}</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                strcpy(CurrentWksDir,app_path);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           allo vold StringEncode (src,dst,dd)
char src[],
unsigned char *dst;
unsigned long dd;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               off = 0,
IntTol6Bytes(len,dst,off);
off = 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              len = strlen(app_path);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        int len,i, off;
len = strlen(src);
       return(ret);
```

```
cheme_add_giobal_constant('create-registry', scheme_add_global_constant('create-registry', scheme_add_global_constant('create-registry', 'create-registry', 'reate-registry', 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      scheme_add_global_constant('delete-registry',
scheme_make_folding_prim(elete_registry,
-delete-registry',
11.11, env);
scheme_add_global_constant('string-app-value',
scheme_make_folding_prim(est_app_value,
'string-app-value',
'string-app-value',
2.7.19, env);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   scheme_add_global_constant("use-registry",
scheme_make_folding_prim(use-registry,
luse-registry',
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     scheme_add_global_constant('umount-cfs',
scheme_make_folding_prim(umount_cfs,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    scheme_add_global_constant('create-cfs');
scheme_make_folding_prim('reate_cfs', 'create-cfs',
for(now = top_dll_handle ; now ; now = now->next) (
  if(now == target) (
   if(old) old->next = target->next;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2, 2,2), env);
scheme_add_global_constant("aundut-cfs",
scheme_make_folding_prim(mount_cfs,
"mount-cfs",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             else old_dll_handle = (PDLL_HANDLE)NULL;
                                                                                                                                                                                                                                                                                                                                                                 it(viu)
ld_dll_handle = old;
else if (target '= top_dll_handle)
old_dll_handle = top_dll_handle;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              void scheme_init_dynaplay(Scheme_Env *env)
                                                                                                                                                                                                                                                                                                 1f(old_dll_handle == target) (
1f(old)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          felse
FreeLibrary(target->dll),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              free(target->path);
free(target->dll_table);
#ifdef UNIX
dlolose(target->dll);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /* String Allocation */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                free (target),
                                                                                                                                                                                           old = now;
```

```
UNLOCK(DisPatch);
DynaDebug('enable-dynamod: Not Find Application', 1, argc, argv);
bynaDebug('enable-dynamod', 'Not Find Application', 1, argc, argv);
break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   UNLOCK(DisPatch);
DynaDebug('enable-dynamod: Can not Open DLL \n");
DynaDebug('enable-dynamod", "Can Not Open DLL", 0, argc, argv);
scheme_wrong_type('enable-dynamod", "Can Not Open DLL", 0, argc, argv);
break:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       UNIOCK (DisPatch),
UNIOCK (DisPatch),
DynaDebug(*enable-dynamod", Out of Memory", 2, argc, argv);
scheme_wrong_type(*enable-dynamod", *Out of Memory", 2, argc, argv);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Excusive Dispatching Function

Excusive DispatchExculsive(int ('func)(int,Scheme_Object ''),
static Scheme_Object 'DispatchExculsive(int argc,Scheme_Object ''argv)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            UNLOCK (DisPatch);
UNLOCK (DisPatch);
DynaDebug("disable-dynamod Not String ArgO\n");
scheme_wrong_type("disable-dynamod", "string", 0, argc, argv);
break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       UNIOCK(DisPatch),
DynaDebug('disable-dynamod Not String Argl\n');
Scheme_wrong_type('disable-dynamod', 'string', 1, argc, argv);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     case 2:
UNCOK(Dispatch);
UNIDEDUG(*enable-dynamod' Not String Argl \n*);
Scheme_wrong_type(*enable-dynamod', *atring', 1, argc, argv);
break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       UNLOCK(DisPatch);
UNLOCK(DisPatch);
DynaDebug('enable-dynamod: Not String Arg0 \n");
scheme_wrong_type('enable-dynamod", "string", 0, argc, argv),
break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                char *new_buf;
if(inew_buf = (char *)malloc(strlen(buf) + 1)) == NULL) {
    return(char *)NULL);
                                                                                                                                                                                                                                                               yord SetFunAddress(unsigned char *dst,unsigned long atai)
                                                                                                                                                                                                                                                                                                                                                                                                                                        // This Function finds direct path such as X:\xxxx\xxxx
int FindDirectPath(char "path)
                                                                                                                                                                                                                                                                                                                                                                                          void SwapResourcePoint(char "app_name,PDLL_HANDLE now);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  int RetVal,
LOCK(DisPatch),
RetVal = (*func) (argc, argv);
switch(RetVal) (
case 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if(*(path + 1) == '.')
return(1);
                                                                                                                                                                        strcpy(new_buf,buf);
return((char *)new_buf);
                                                                                                                                                                                                                                                                                                                             memcpy(dst,&ata1,4);
char *stralloc(buf)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                return (0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              case 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CASE
```

```
app.a = top_app_a + 1 + val • 8;
anemcpy(dll_table->add, app_a,4);
dll_table->income val,
cll_table->income val,
dll_table + income val,
dll_table + income val,
dll_table + income val,
dll_table + income val,
DynaPrint((`Swap Func %d 'val);
DynaPrint((`Twap Func %d 'val);
                                                                                                                                                                                                                                                                                                                                                            Scheme Function
(Enable_DynaMod dynamodule-path app-name (list for changing functions)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             static Scheme_Object *enable_dynamod(int argc, Scheme_object **argv)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   vold SwapBackResurceData(PDLL_HANDLE now); // SwapBackResources
                                                                                                                                                                                                                                                                                          ) else {
    DynaPrint('******* Not Done Enable : %s\n',file_name);
    return(0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           static int DisableDynaModBody (int argc, Scheme_Object **argv)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         return( DispatchExculsive(EnableDynaModBody, argc, argv));
                                  // Swapping Resouce (from DynaModule to Application) SwapResourcePoint (app_name.now);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DisableDynaModBody
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 *************************
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     #ifdef _DEBUG
DynaPrint("Done Enable ' %s\n", file_name);
                                                                                                    int i,
unsigned char 'app_a' app_top_a;
char 'file_name, 'app_name,
PDLL_TABLE dll_table;
                                                                                                                                                                                                                                                                        now->SizeOfDllTable = items;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1st = SCHEME_CDR (1st);
              return (5);
                                                                                                                                                                                                                                          return(6)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PDLL_HANDLE now;
PAPP_HANDLE app;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return (0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                else (
                                                                            #end1f
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 tendi
endif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if(Inow->dll = dlopen(new_file_name,l)) == NULL) (
scheme_wrong_type('enable-dynamod', 'Can Not Open DLL', 0, argc, argv),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if((now->dll = LoadLibrary(new_file_name)) == NULL) {
   int err;
   err = GetLastError();

                                                                                                                                                                      EnableDynaWodBody
static int EnableDynaModBody(int argc, Scheme_Object "argv)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 'i('top_dll_handle) top_dll_handle = now;
if(old_dll_handle) old_dll_handle->next = now;
old_dll_handle = now;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if('FindDirectPath(file_name))(
    sircpy(new_file_name,CurrentWksDir);
    strcat(new_file_name,file_name);
                                                                                                                                                              ******************
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             now->next = (PDLL_HANDLE)NULL;
now->path = stralloof(file_name),
now->olsable_func = NULL;
now->Pointer = (PResourceSwap) NULL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         strcpy(new_file_name,file_name);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           file_name = SCHEME_STR_VAL(argv[0]);
app_name = SCHEME_STR_VAL(argv[1]);
                                                                                                                                                                                                                                              PDLL_HANDLE now;

MAP_HANDLE app;
unsigned char "app_a, top_app_a,
char "file name, app_name;
Schem_Object "is,
Scheme_Object "sobj;
                                                                                                                                                                                                                                                                                                                                                                                                    if ('SCHEME_STRINGP(argv[1])) (
    return(2);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1f('SCHEME_LISTP(argv(2))) (
    return(3);
                                                                                                                                                                                                                                                                                                                                      int items;
long val,offset;
PDLL_TABLE dll_table;
char new_file_name[1024];
                                                                              )
UNLOCK(DisPatch);
return(scheme_true);
                                                default.
break;
                  break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           #1 fdef UNIX
```

```
Scheme_Object *str;
unsigned char *tmp,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       return scheme_false,
                                                                                                                                                                                                      DYNA_VALUE *dvalue;
unsigned char *val;
int i,len;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        return(argv[1]);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          itic Scheme_Object *app_value_string(int argc, Scheme_Object **argv)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           static Scheme_Object 'disable_dynamod(int argc, Scheme_Object 'argv)
                                                                                                                                                                                                                                                                                                                                                                            if((app = SearchApP(app_name))) {
  if((now = SearchApP(app_name))) {
   id(low = SearchOpnedDLL(file_name)) } {
   id(l_tab)e = (PDL_TABLE)now->dll_table;
   app_top_table;
   app_top_table;
   app_top_table;
   app_e = app_top_table;
   app_e = app_top_e + 1 + dll_table->index * 8;
   app_e = app_top_e + 1 + dll_table->index * 8;
   app_e = app_top_e + 1 + dll_table->index * 8;
   app_e = app_top_e + 1 + dll_table->index * 8;
   app_e = app_top_e + 1 + dll_table->index * 8;
   app_e = app_e + 1 + dll_table->index * 8;
   app_e = app_e + 1 + dll_table->index * 8;
   app_e = app_e + 1 + dll_table->index * 8;
   app_e = app_e + 1 + dll_table->index * 8;
   app_e = app_e + 1 + dll_table->index * 8;
   app_e = app_e + 1 + dll_table->index * 8;
   app_e = app_e + 1 + dll_table->index * 8;
   app_e = app_e + 1 + dll_table->index * 8;
   app_e = app_e + 1 + dll_table->index * 8;
   app_e = app_e + 1 + dll_table->index * 8;
   app_e = app_e + 1 + dll_table->index * 8;
   app_e = app_e + 1 + dll_table->index * 8;
   app_e = app_e + 1 + dll_table->index * 8;
   app_e = app_e + 1 + dll_table->index * 8;
   app_e = app_e + 1 + dll_table->index * 8;
   app_e = app_e + 1 + dll_table->index * 8;
   app_e = app_e + 1 + dll_table->index * 8;
   app_e = app_e + 1 + dll_table->index * 8;
   app_e = app_e + 1 + dll_table->index * 8;
   app_e = app_e + 1 + dll_table->index * 8;
   app_e + 1 + dll_table->index * 8;
   app_e + 1 + dll_table->index * 9;
   app_e + 1 + dll_table->index
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               lf(sCHEME_STRINGP(argv[0]))
scheme_wrong_type('app-value->string','string',0,argc,argv).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         e'se {
    DynaPrintf("!!! Not Done Diable: %s \n",file_name);
    return(0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          return(DispatchExculsive(DisableDynaModBody,argc,argv));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         if(now->disable_func) /* Run Deleting Object */
(*now->disable_func)();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Get Application value in scheme (Scheme Function)
app-value-setring value_name
first Argment value_name
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 str = scheme_alloc_string(dvalue->length,0x00),
data = (unsigned char *)SchPRE_STR_VAL(str);
for(1 = 0 ) 1 < dvalue->length ; 1 ++ )
 *(data + 1) = *(dvalue->value_pointer + i);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                disable dynamod file (Scheme Function)
first Argument: DLL path
second Aegument App Name
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DynaPrintf("### Done Diable: %s \n",file_name);
return(0):
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              dvalue = (DYNA_VALUE *)SCHEME_STR_VAL(argv[0]);
                                                                                                                                                                                                                                                                                               file_name = SCHEME_STR_VAL(argv[0]);
app_name = SCHEME_STR_VAL(argv[1]);
1f ('SCHEME_STRINGP(argw[0])) (
    return(7);
                                                                                                   )
if ('SCHEME_STRINGP(argu(1))) (
return(8);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SwapBackResurceData(now);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 else
return scheme_false;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Scheme_Object *str;
DYNA_VALUE *dvalue;
unsigned char *data;
int i;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FreeOpendDLL (now);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         return(str);
```

```
1f(inow = (LIST_DYNA_VALUE *)malloc(sizeof(LIST_DYNA_VALUE))) == NULL)
return(2),
Set stiring to Application value in scheme (Scheme Function)
string->app-value value-name new_string_value
Argments : value_name new_string_value
Argments : value_name new_string_value
static Scheme_Object "set_app_value(int argc, Scheme_Object "*argv)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             int dynaplay_store_value(char * scm_v_name,char * value,int size)
                                                                                                                                                                                                                                                                                          1f(!SCHEME_STRINGP(argv[0]))
scheme_wrong_type("string->app-value","string",0,argc,argv);
                                                                                                                                                                                                                                                                                                                                                           1f('SCHEME_STRINGP(argv[1]))
scheme_wrong_type("string->app-value","string",1,argc,argv);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if(global env) ( /* Already global_env has been setted */
DINA_VALUE dyn;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       str = scheme_alloc_string(sizeof(DYNA_VALUE),0x00);
dyn.value_pointer = value,
dyn.length = size,
tmp = (unsigned char *)SCHEME_STR_VAL(str),
tmp = (unsigned char *)SCHEME_STR_VAL(str),
scheme_pd(ind),ddyn,sizeof(DYNA_VALUE));
return(0),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if(!top_value_list) top_value_list = now,
if(old_value_list) old_value_list->next = now;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                of(dvalue->length) {
   val = (unsigned char *)SCHEME_STR_VAL(argv[1]);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     dvalue = (DYNA_VALUE *)SCHEME_STR_VAL(argv[0]);
len = SCHEME_STRTAG_VAL(argv[1]),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            break,
*(dvalue->value_pointer + i) = *(val + i);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              for(1 = 0 ; 1 < dvalue->length ; i ++ ) (
    1f(i >= len )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                now->next = (LIST_DYNA_VALUE *)NULL;
now->value_pointer = value,
now->length = size,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           strcpy(now->value_name,scm_v_name);
old_yalue_list = now,
return(0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Set Application value into scheme first Argment : Value, mame second Argment size of Value third Argment size of Value
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if(strlen(scm_v_name) >= 32)
return(l);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              else (
LIST_DYNA_VALUE *now,
```

12

```
create cfs FILE (Scheme Function)
Argment: path-name.application
Ex: paht-name.application: = \dynaplay\dynalib\mzscheme\debug\mzsheme exe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Create Registry (Scheme Function)
Argment: application-name
Ex phognanil exe
Ex phognanil exe
exetic Scheme_Object *create_registry(int argc, Scheme_Object *argv)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Use-Registry (Scheme Function)
If this function falls, Application will exit.
If this function is one of 'secure key function'.
Argment: application-name
Ex hangmanl2.exe
Ex hangmanl2.exe
static Scheme_Object "use_registry(int argc, Scheme_Object "argy)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 char 'app_name
if ('SCHEME_STRINGP(argv[0]))
scheme_Wrong_type('create-registry', 'string', 0, argc, argv);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1f ('SCHEME_STRINGP(argv[0]))
scheme_wrong_type("use-registry", "string", 0, argc, argv);
if(cfs_umount(app->mount_path) == 0) (
   for( i = 0 ; i < 2 ; i++ ) (
        CfsControlTable[i].func = CfsControlTable[i].normal;</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  static Scheme_Object *create_cfs(int argc, Scheme_Object **argv)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          if ('SCHEME_STRINGP(argv[0]))
scheme_wrong_type("create-cfs", "string", 0, argc, argv);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 *************************************
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      *******************************
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               app_name = SCHEME_STR_VAL(argv(01);
If("GetRegistryValue(data.app_name)) {
   if("CheckCFSAndRegistry(data)) {
        nn UseRegistry = 1,
        return(scheme_true);
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       app_name = SCHEME_STR_VAL(argy[0]);
if('CreateRegistry(app_name))
return(scheme_true);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cfs_path = SCHEME_STR_VAL(argv(0));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /* Gloval value for use registry */
int UseRegistry = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1f(CreateCFS(cfs_path))
    return(scheme_false),
                                                                                                                                                                           return(scheme_true),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    char *app_name,
unsigned char data[512],
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      return(scheme_true);
                                                                                                                                                                                                                                                                                        return(scheme_false);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return(scheme_false);
                                                                                                                                                                                                                                                                                                                                                                                                        return(scheme_false);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               char *cfs_path;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         if((app = SearchAPP(current_app_name)) == NULL) (
    scheme_wrong_type('umount-cfs', 'Not Find Application', 0, argc, argv),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   static Scheme_Object *umount_cfs(int argc, Scheme_Object **argv)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /* Global value for CFS */ unsigned char RegistryBull [512]; static char current_app_name[1024] = (0x00,0x00,0x00,0x00,0x00); static char current_Lig = 0; // If mount CFS, the value is 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      static Scheme_Object 'mount_cfs(int argc, Scheme_Object ''argv)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               IscFSWount function
If application mounts CFS (VFS) file, return 1, otherwize 0
                                                                                                                idefine GDESC 'Identifiers and symbols are case-sensitive \n'
idefine BDESC 'Square brackets are not read as parentheses \n'
idefine BDESC 'CULIY braces are not read as parentheses \n'
idefine BDESC 'EULIY in globals are constant.\n'
idefine BDESC 'ELIMITIVE exceptions are secure.\n'
idefine BDESC 'Set' works on undefined abentifiers.\n'
idefine BDESC 'Catl'/CC is replaced with call/idec.\n'
idefine BDESC 'Relywords not enforced.\n'
idefine BDESC 'Keywords not enforced.\n'
idefine BDESC 'Keywords not enforced.\n'
idefine BDESC 'Relywords not enforced.\n'
idefine BDESC '
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         在在在我们的现在分词 医克格特氏性 医电影 医电影 医电影 医电影 医电影 医医生物 医医生物 医医生物 医克勒氏试验检尿道 医克勒氏试验检尿道试验检尿道
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1f ('SCHEME_STRINGP(argy[0]))
    scheme_wrong_type('mount-cfs', "string", 0, argc, argv);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        unmount cfs FILE (Scheme Function)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mount ofs FILE (Scheme Function)
Argments: application-name
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ********************************
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          extern struct _CfsControlTable CfsControlTable[2];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if(CFSMountWithPath(app->mount_path))
return(scheme_false);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    app_name = SCHEME_STR_VAL(argv[0]);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CFS Control Table */
ruct _CfsControlTable {
Scheme_Object *(*func) {},
Scheme_Object *(*func) {},
Scheme_Object *(*rormal) {});
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             app = SearchAPP(app_name);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        of (app->vfs_mount_flg) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return(scheme_true);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        #1fdef MZ_STACK_START_HACK
void *mzscheme_stack_start;
#endif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           int IsCFSMount() {
   if(cfs_mount_flg)
     return(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     char *app_name;
PAPP_HANDLE app;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                int i,
PAPP_HANDLE app;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return (0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      else
```

```
else (
bynabebug(*Dynal.)b. Created Registry, but something wrong !! \n').
eteunn(3)
                            Set a value (data) into the specified registry.
If the registry does not exist, this function will create.
The specified registry is the name of application
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            else (
DynaDebug(*DynaLib Can not Create Registry !!!! \n*),
return(4);
)
                                                                                            int SetRegistryValue(unsigned char *data,char *app_name)
                                                                                                                                                                                                                                                hkey = HKEY_LOCAL_MACHINE,
stropy (key, SOFTWAREN\SegaSoft\)DynaPlay\\'');
strost(key, App.name);
if(ERROR_SUCCESS == RegOpenKeyEx(hkey, key, reserve,
/* Key is exists */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                16
                                                                                                                                                                                                                                                                                                                                                                                                                                         hehildey = NULL;
hehildey = NULL;
fdoption = REG_OFTION_NON_VOLATILE;
fdoption = GL;
lipdwisposition = fdwbisposition;
lipdwisposition = fdwbisposition;
                                                                                                                            HKEY hkey;
char key[5]];
HKEY hchildkey;
DWORD reserve;
DWORD dobpton.
DWORD dobpton.
DWORD dobpton.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              #ifdef USFR_RELEASE
int Easy_flg = 0;
                                                                                                                                                                                                                                 reserve = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         return (0);
return(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          #else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       static Scheme_Object *delete_registry(int argo, Scheme_Object **argv)
                                                                                                                                                                                                                                                                                                                                                                                                                                                1f ('SCHEME_STRINGP(argv[0]))
scheme_wrong_type("delete_registry", "string", 0, argc, argv);
                                                                                                                                                                                                                                                                                                                   Delete-Registry (Scheme Function)
This function deletes the registry entry consisting with the application name.
Arguentes
Ex: hangman32 exe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      int GetRegistryValue(unsigned char *data,char *app_name)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15
                                                                                                                                                                                                                                                                                                      HKEY hkey,
char key[512],
long ret;
hkey = HKEY_LOCAL_MACHINE;
strcpy(key, SOFTWARE\\SegaSoft\\DynaPlay\\');
strcat(key, App.name);
ret = Regoleterkey(hkey, key);
l(ret == ERROR_SUCCESS);
                                                                                                   static int DeleteRegistry(char *app_name)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    app_name = SCHEME_STR_VAL(argv[0]);
if(DeleteRegistry(app_name))
else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      return(scheme_false);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HKEY hkey;
char key[512];
char Name[10],
HKEY hchlldkey;
DWORD reserve;
DWORD stype;
OWORD stype;
                                                                                                                                                                                                                                                                                                                                                                                                                          char *app_name;
                                                                                                                                                                                                                                                          return(1),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return(0),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   size = 512;
                } else
exit(0),
                                                               exit(0);
                                                     else
```

```
// (cfs_mount(new_name) >= 0) {
   if('CheckerS(app_name)) {
        for(x = 0 : x < 2 : i++ ) {
        for(x = 0 : x < 2 : i++ ) {
            CfsControlTable[1].func = CfsControlTable(x).cfs,</pre>
static int CFSWount(Char 'app_name, PAPP_HANDLE app)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Hake No Drive path name
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if (SearchPath (NULL, app_name, NULL, 1024, new_name, &bufil) (
stropy (AppNamePath, new_name);
/* initialize Current Wis Dir */
Initialize Current Wis Current Wis Current Wis Current Wis Current Cu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              strcpy(current_app_name,app_name);
return(0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1f(Easy_flg) ( // Create VFS
1f('CreateCFS(AppNamePath)) (
app->mount_path = stralloc(new_name);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ', lse ( /* Mount fail: dose not exists CFS */
#1fdet_DEBUG
DynaPrintf(*Mount Error Code: %d \n*, ret);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          )
else (
l'HardCPCreateCFS(AppNamePath))
return(0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   strcpy(current_app_name,app_name);
cfs_mount_flg = 1;
return(0),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       app->mount_path = stralloc(new_name);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          exit(3), /* Can not find application */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1f((ret = cfs_mount(new_name)) >= 0) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   else
exit(1); /* Wrong VFS use */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cfs_mount_flg = 1;
return(0),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     void MakeNoDrivePath(char *path)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  else
exit(1),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          else
exit(1);
                                                                                                           char new_name[1024];
char AppNamePath[1024];
char * bufl,
int len,i,ret;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  #end1f
                                                                                                                                                                                                                                                               Check CFS is corrent

This function just checks the application name conflict
if this function returns non 0 value, it will be wrong an application
if this function returns non 0 value, it will be wrong an application
to use the virtual file system.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mount Virtual File System
The Virtual File System should exists the same directory of the App
If the Virtual File System does not exist in there,
this function will fail and exit application.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1f((fp = cfs_open(*windows.data*,CO_RDONLY)) == NULL)
return(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /* Check CFS Install Date */
li([fp = cfs_open('app_name dat'.Co_RDONLY)) != NULL) (
cfs_decode_rad(get_app_name,len,l,fp);
cfs_close(fp);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if(stat.st_mode & _S_IFDIR) {
  if(stat.st_ctame != date) {
    cfs_close(fp);
    return(1),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1f(Easy_flg) {
    return(strcmp(get_app_name,app_name));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      struct _stat stat;
ret = strcmp(get_app_name,app_name),
if(ret)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           return 1, (get_app_name + len) = '\0';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              for(;;) (
lf(cfs_eof(fp))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           int len,
char get_app_name[1024];
int ret,
thar [1]e[2048],
int dete;
                                                                                                                                                                                                                                                                                                                                                                                                                           int CheckCFS(char *app_name)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   len = strlen(app_name);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          return(ret);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  return(0);
                                                               #else
int Easy_flg = 1;
#endif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          else (
                                                                                                                                                                               #end1f
```

```
}
for(1 = 0 , 1 < 2 ; 1++ ) (
   CfsControlTable(1).func = CfsControlTable(1).cfs:</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      / Change the contents of registory and contents of CFS data "/
                                                                                                                                                                                                            for(i = len : i > 0 : 1-- ) {
    if (lew_name + 1) == '/' || *(new_name + 1) == '\\') {
        brcpy(app_name.new_name + 1 + 1);
        break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         if('top_app_handle) top_app_handle = now;
if(old_app_handle) old_app_handle->next = now;
old_app_handle = now;
if(*(app_path + len) != '.')
return(1); /* path name does not have '.exe' */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           now--app_table = WULL;

now--app_name = stralloc(app_name);

now--next = (PAPP_HANDLE) WULL;

now--next = (PAPP_HANDLE) WILL;

now--next = stralloc(new_name);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        strcpy(current_app_name,app_name);
if(app = SearchAPP(app_name)) (
    app->vfs_mount_flg = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if((app = SearchAPP(current_app_name))) {
    cfs_umount(app_amount_path);
    app_avfs_mount_idg = 0;
    cfs_mount_idg = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              return(3); /* Mount fail No VFS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /* success to get the pathname of the app
strcat(new_name, ".vfs");
//MakeNoDrivePath(new_name);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         return(2); /* Wrong VFS use */
                                                                                                                                                                                                                                                                                                                                                                                                                                     1 (!app_name(0))
strcpy(app_name,new_name);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cfs_mount_flg = 1;
return(0);
                                                                                                   stropy (new_name, app_path);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       unsigned int data[64];
unsigned long dd,
CF *fp,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    new_name[len] = '_';
                                                                                                                                                            *:0\. = (0)awel0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1f(UseRegistry) {
   dd = time(NULL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ) else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Match Drive Path
This Function make Dirive from src path to dat path.
If src path and dat path is different drive, this function will due to Easy_Elgy Aahle.
If Easy_Elgy Ashle.
If Easy_Elg is 1, this function will make the same drive from src to dat.
If Easy_Elg is 0, this function will do nothing.

void MatchDrivePath(char *src, char *dst)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mount Virtual File System with the path name of vfs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ise if (*(dst + 1) == '/' || *(dst + 1) == '\\') (
    // No Drive Definition
    streat(buf,dst + 1),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                int slemin, dlem;
char buf[1024];
fiddef_DEBUG
DynaPrint(('Before Match Drive Src: %s \n',src);
bynaPrintf('Before Match Drive Dst: %s \n',dst);
eendi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /* app_name must have ".exe" or ".EXE" */
len = strlen(app_path) - 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     strcpy(dst,buf);
)
stdef_DEBUG
DynaPrintf('Match Drive Src. % \n',src);
DynaPrintf('Match Drive Dst: % \n',dst);
fendif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          if(Easy_flg) ( // Easy Mode
    slan = stribn(str);
buf(0) = '\0' .
    /* fand drive from Str '/
    for( 1 = 0 : 1 < slen : 1 + +) (
        if(* Str + 1) = ': ) (
        if(* Str + 1) = ': ) (
        buf(i + 1) = '\0';
    }
}</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  dlen = strlen(dst);
for(1 = 0; i, < dlen; 1++) {
    if (dst + 1) == ::') {
        strcat(buf, dst + 1 + 1);
        break;</pre>
                                                                         int len.1,
    char buf[1024],
    len = strlen(path);
    buf[0] = vol.
    for(1 = 0 ; 1 < len; 1++) {
        if(*[path + 1) == '.';) {
            strcpy(buf,path + 1 + 1);
            break;
            break;

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       int CFSMountWithPath(char *app_path)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   char new_name[1024];
char app_name[1024];
int len,i.ret,
PAPP_HANDLE app,now;
                                                                                                                                                                                                                                                                                                                                                                            )
if(buf[0])
strcpy(path,buf);
```

```
createCFS requires the path_name for application.
Path name includes application name which includes ".exe"
Ex c'/temp/hangman/debugh/nampan exe
The directory terminated char must be '/' even if Windows.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if('path_name + 11 - 4) != ' ') {
   /* Not correct file name */
   DynaPrintf('Dynalib' %s is wrong Path name\n',path_name);
   return[1];
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11 ++,

app_name(0) = '\0',

app_name + 1 ; 1 > 0 , 1 -- ) {

if(*(path_name + 1) == '\' || *(path_name + 1) == '\\') {

strop(spp_name,path_name + i + 1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if(cfs_make_new_fs(new_path_name,1024,102400,1024) != 0) {
    Dynabebug('Dynalib: Error: Can not create VFS \n');
    return(2);
                                                                                                                                                                                                                                                                                                                                                                                        if((fp = cfg_open('Dynaplay sec',CO_WRONLY)) != NULL) {
  cfg_encode_write(data,4.64.fp);
  cfg_close(fp);
  return(ret);
  return(ret);
                                                                                                                                                                                                              if((fp = cfs_open('Install.date',CO_MRONLY)) != NULL) (
    cfs_encode_write(&dd,4.1.fp);
    cfs_lose(fp);

#idef __DEBUG
printf('Install Date: %x \n' dd);
    dd = Interom168ytes(RegistryBUF,16);
    dd = Interom168ytes(RegistryBUF,16);
    endif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               //printf("CreatePath %s \n".new_path_name);
                                                                                                                         dd = time(NULL);
StringEncode(app_name,RegistryBUF,dd);
RandomValueSer(RegistryBUF,dd);
GefRandomValue (RegistryBUF,ddi);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     strcpy(new_path_name,path_name);
new_path_name(11 - 4) = ___,
strcat(new_path_name, vfs*),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             //MakeNoDrivePath(new_path_name),
                                    if(IsCFSMount()) {
  for( 1 = 0 , 1 < 512 , 1++ ) (
    RegistryBUF(1) = '\0',
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if('app_name[0])
strcpy(app_name,path_name),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    int CreateCFS(char *path_name)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 int i,ll;
CF *fp;
CArar app_name [512],
char new_path_name[1024];
PAPP_HANDLE now;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11 = strlen(path_name);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  return(1);
CF *fp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                #!fde(_DEBUG
print([CFS datal[%d]. %x Reg data2[%d]: %x \n', i, datal[i], i, data2[i]];
fendi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Create Registry and Set security data into the virtual file system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Check CFS Date Date of CFS Install and Random Number.
This function checks values which exit in the registry and VFS.
TF Now O value retrum, dose not much values.
From this function is called must mount VFS.
                                                                                                                                                     /* SetValue into CFS */
If((fp = ffs_open('Dynaplay sec',Co_WRONLY)) '= NULL) (
ff = ffs_open('Dynaplay sec',Co_WRONLY)) '= NULL) (
ff_sencode_write(date,4,64,fp);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /* Check CFS Random Number */
11((fp = cfs_open(-Dynaplay sec*,Co_RDONLY)) != NULL) (
cfs_decode_read(datal,4.64,fp),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /* Check CFS Install Date */
if((fp = cfs_open('Install date',CO_RDONLY)) != NULL) (
cfs_decode_read(&dd1,4,1,fp);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21
                                                                                                                                                                                                                                                                                                                                                                                                                                        static int CheckCFSandRegistry(unsigned char *data)
                                                                                 /* SetValue to Regitory */
SetRegistryValue(RegistryBUF,current_app_name),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 #idef_DEBUG

DynaFrint(TCFS install date %x',ddl);

DynaFrint(TReg install date: %x \n'.dd2);

#endif
it(ddl'= dd2)
return l,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  unsigned int datal(64),data2(64),ddl,dd2;
int i;
CF *fp;
                   RandomValueSet(RegistryBUF,dd);
GetRandonValue(RegistryBUF,data);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  int CreateRegistry(char *app_name)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          dd2 = IntFrom16Bytes(data, 32);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             for(1 = 0; 1 < 64; 1++) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1f(datal(1) '= data2(1))
return 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        unsigned long int dd;
unsigned int data[64];
                                                                                                                                                                                                                    )
cfs_close(fp);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cfs_close(fp);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return 1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          else
return 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return (0);
```

```
1f((now = SearchAPP(Dyna_app_name)) == NULL) ( /* New Application */
1f((now = (PAPP_HANDLE)malloc(sizeof(APP_HANDLE))) == NULL) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /mstruthy WFS and Set Application Informations such as the application name and a dynatable,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     now-sapp_table = Dyna_table,
now-sapp_name = stralloc(Dyna_app_name);
now-sheat = (RAPP_MANDEE)NULL;
now-shourt [fig * 1];
now-shount path = (char *)NULL;
if(ttop_app_handle) top_app_handle = now,
nif(top_app_handle) cop_app_handle = now;
old_app_handle = now,
                                                                                                                                                                                                                        if(stat.st_mode t, S_lFDIR) ( // Directory
lon = srlen(file);
cfs_encode_wrice(file,4.1,fp);
cfs_encode_wrice(file,4.1,fp);
cfs_encode_wrice(file,6.1,fp);
cfs_encode_wrice(sscat.st_ctime,4.1,fp);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DynaDebug("Can not Make Memory \n"),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             )
if(SetCurrentDirectory(curdir) == FALSE)
return(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if(FindNextFile(data,&dir) == FALSE)
break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /* CFS Mount */
if(CFSMount(Dyna_app_name,now)) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DynaDebug("Mount Fail\n"),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cfs_remove('windows.data');
return(1);
strcpy(file, sysdir);
strcat(file, '/");
strcat(file, dir.cFileName),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    static char "Dyna_app_name;
static unsigned char "Dyna_table;
                                                                                                                             if(_stat(file,&stat)) {
  err = 1;
  break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PAPP_HANDLE now, app;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return -1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             int SetUpDynaTable()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cfs_close(fp);
if(err) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Error
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  return(ret);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                fifdef DEBUG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            #end1f
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              fendi f
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HardCPcreateCFS requires the path_name for application, path_norman includes application name which includes exer Ex c./temp/hangman/debug/hangman exe The directory terminated char must be '/' even if Windows int HardCPCreateCFS(char 'path_name)
            /* Mount */
lifeEs_mount(new_path_name) >= 0) (
lifeEs_mount(new_path_name) == NULL) ( /* New Application */
lif(now = CearchAPP(spp.name)) == NULL) (
lif(now = CRAPP_HANDLE)malloc(sizeof(APP_HANDLE))) == NULL) (
lifeTow = CRAPP_HANDLE)malloc(sizeof(APP_HANDLE)) == NULL) (
lifeTow = CRAPP_HANDLE) == NULL (
lif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1f((data = FindFirstFile(***,&dir)) == INVALID_HANDLE_VALUE)
return(1),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1f('top_app_handle) top_app_handle = now;
1f(old_app_handle) old_app_handle->next = now;
old_app_handle = now;
                                                                                                                                                                                                                        now->app_table = NULL;
now->app_name = stralloc(app_name);
now->abx_ = (RAPP_MANDE)NULL;
now->vXs_mount_fig = 1;
now->mount_path = stralloc(new_path_name);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          int ret.len;
char syshr[1024].curdir[1024].file[2048];
HINIZ_ETND_ONTA dir;
HINIDE deta.
struct_stat stat;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1f(SetCurrentDirectory(sysdir) == FALSE)
    return(1),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if('GetCurrentDirectory(1024,curdir))
return(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1f((ret = CreateCFS(path_name)) != 0)
return(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if('GetWindowsDirectory(sysdir,1024))
return(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cfs_mount_flg = 1;
strcpy(current_app_name,app_name);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               for(;,) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return(0),
```

```
extern int dynaplay_main(char 'file_name,char 'app_name,unsigned char 'table);
                                                                                                                                                                                 DynaPlay Main Function
This function is called from the Application
                                                                                                                      int dynaplay_main(char *file_name,char *app_name,unsigned char *table)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // Call Thread and Initialize Scheme !!!!
if(!CurrentSem) ( // CreateThread
unsigned 1:
HANDLE THE AGE
THE - CreateThread(0, C. (LPTHREAD_START_ROUTINE)KeepStackThread,
SetThread(0, C. thread);
SetThreadPriority(TH,THREAD_FRIGRITY_LOWEST);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .s.
Steeme_stackbottom = 0x2ff23000;
DynaPrintf('scheme_stackbottom %4x: \n',scheme_stackbottom);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    b.f defined(USE_STACK_START_HACK) || defined(USE_SIMPLE_GC)
long start;
hond;
end;
end;
end;
mzscheme_stack_start,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              #if defined(MSE_STACK_START_HACK) || defined(USE_SIMPLE_GC)
long start2;
                                                                                                                                                                                                                                                                                                                                      #if defined(M2_STACK_START_HACK) || defined(USE_SIMPLE_GC)
long startl;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          #idef USE_SIMPLE_CC

CC_set_stack_base(mzscheme_stack_start);

CC_set_stack_base(mzscheme_stack_start);

#if_defined_IEMPLS_0 & defined(USE_SIMPLE_CC)

if_((uns.gned long)&no_rep > (unsigned long)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DynaDebugInit(); // Debug Text Start !!!!!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  return(0),
ReleaseSemaphore(CurrentSem,1,NULL),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if(SetSem)
WaitForSingleObject(MzSem,INFINITE);
return 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         'se ( // Release Semaphore (wake up)
strcpy(GlobalFileName,file_name);
if(SetUpDynaTable() < 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // Set Dyna_app_name and Dyna_table Dyna_app_name = app_name; Dyna_table = table,
                                                                                                                                                                                                                                                                                                                                                                                                                                          #endif
#ifdef USE_SIMPLE_GC
void *mzscheme_stack_start;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  road anat_scheme()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     #endif
int SetSem;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1f(!Alreadese) (
Watchread(WatchreadCount) = CreateSemaphore(NULL, 0, 1, NULL);
Watchread(Watchread(WaichreadCount++), INFINITE);
WattorSingleObject(Waichread(WaichreadCount++), INFINITE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DynaPrintf('DynaInt Thread ID. %x \n', GetCurrentThreadId());
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   static HANDLE WaitThread[64]; // Why 64 Because MzScheme use 64
alic int WaitThreadCount = 0;
itic int AlradyRelease = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        for(; , ) ( // Walt Until App Done
WalfOrSingleObpect(CurrentSem.INFINITE);
acheme_load(GlobalFileName),
CurrentSem = CreateSemaphore(NULL,0.1, "Scheme");
                                                                                                                                                                                                       This Thread keeps own stacks
Because, Mischeme uses Stacks for Thread application
If stacks is the same of the app and mischeme,
something worng situation happned!!!!!
by Takash.
static Anholic Currentisem = (HANDLE) NULL;
static Char GlobalFileMame(256);
static ANDLE Wissem = (HANDLE)NULL;
                                                                                                                                                                            // Load 'unit dat un VPS scheme.loadFuladame).
DynaPrunt('Dyna Load File '8 'N'.FileName).
CurrentSem = GreateSemaphore(NULL,0,1,"Scheme');
if(Selinit) (ReleaseSemaphore(MZSem.l,NULL),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 int 1;
for( 1 = 0 ; 1 < WaitThreadCount ; i++ ) {
   ReleaseSemaphore(WaitThread[1], 1, NULL);</pre>
h:fdef USE_WIN12_THREADS // Add T.Kosaka
void GcStartUpWin32ThreadGc(); // For Win32 GC
Renoid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1f(SetUpDynaTable() < 0 ) (
1f(SetInit) (
    ReleaseSemaphore(MzSem,1,NULL);</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      #ifdef USE_WIN32_THREADS // Add T Kosaka
GcStartUpWin32ThreadGc();
ndif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if('global_env) {
   global_env = scheme_basic_env();
   SetInit = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           // This function for Stack save
// Becaouse, Scheme needs Own Stacks.
void KeepStackThread(char *FileName)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  )
RleaseAllWaıtThread();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if (WaitThreadCount > 64)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    void RleaseAllWaitThread()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ExitThread(0),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AlradyRelease = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        void PushWaitThread()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        int SetInit = 0;
```

```
28
return 0;
                                                                                                                                       #ifdef USE_SIMPLE_GC

GC_sec_stack_base(mascheme_stack_start);

#endif

#if defined(_lawR2) i& 'defined(USE_SIMPLE_GC)

if (intagened long)&no_rep > (unasgned long) 0x2ff21000)

scheme_stackbottom = 0x2ff21000;

#if (intagened long)&no_rep > (unasgned long) 0x2ff21000)

punaPrintf('scheme_stackbottom %4x: \n', scheme_stackbottom);

#intif('scheme_stackbottom %4x: \n', scheme_stackbottom);
          return value char -> pointer

if function returns ff, return value 0

unsigned long DynaEvalString(const char "eval_body.int "type)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     memcpy(ksavebuf, &scheme_error_buf, sizeof(jmp_buf));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ,
memcpy(&scheme_error_buf, &savebuf, sizeof(jmp_buf)),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1f ('scheme_set)mp(scheme_error_buf)) {
    ret = scheme_eval_string(eval_body.global_env);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if(scheme_SyrRingP(ret)) {
    if(scheme_SyrRingP(ret)) {
        val = (unsigned long)SCHEME_SYRL(ret), }
    } else if (scheme_InrP(ret)) {
        vyn = (unsigned long)SCHEME_INT_VAL(ret), }
    **type = 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23
                                                                                                                                                                                                                                                                                                                                                                                                                                                           type : char -> 1
type : than -> 2
others -> 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ) | type = 0;

\(\text{ifret} = \text{scheme_false}\)
\(\text{val} = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    int LoadNewScript(char *file_name)
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ret = (Scheme_Object *)NULL;
*type = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  else
val = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           scheme_load(file_name),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Scheme_Object *ret;
unsigned long val;
jmp_buf savebuf;
LOCK(EVAL);
```

```
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#include <malloc.h>
#define SEPARATORS " "
#define END_OF_LINE_SEPARATOR " \t\n"
#define DEF_FILE_PREAMBLE ";%s\nNAME \"%s.exe\"\nEXPORTS\n"
#define DEF_FILE_PREAMBLE_DYNAMOD "; %s\nLIBRARY \"%s.dll\"\nEXPORTS\n"
#define F "f"
#define BUFSIZE 2048
#define PREFERRED "Preferred"
#define LOAD "load"
#define IS "is"
#define aDDRESS "address"
#define ADDRESS "Address"
#define PUBLICS "Publics"
#define BY "by"
#define VALUE "Value"
#define COLON ':'
#define COMPARE_ADDRESS 14
#define COMPARE_SYMBOL 26
#define DYNA "?DYNA"
#define DFLAG "/D"
#define AFLAG "/A"
#define BASE 16
#define TRUE 1
#define DATA "DATA"
#define DATA_NULL ""
#define GLOBAL_COMMENT "; Global variables start here (I hope)"
#define DEF "def"
* This program takes a program map file (.map) and converts it
 * into a module definition file (.def) that will be used to
 * create an import library (.lib) that will satisfy any and all
 * external references in the dynamodule (.dll) that exist solely in the
 * original program (.exe). This results in a dynamodule that is
 * the smallest possible size.
int find_string(char *src, long *base_address)
      static char *stop_buf[] = {ADDRESS, PUBLICS, BY, VALUE, "\0"};
      static char *address_buf[] = {PREFERRED, LOAD, aDDRESS, IS, "\0"};
      char **continue_search;
      char *token;
      static base_flag = 1;
      // Return if not end of mapfile preamble or base address
      if ((token = strtok(src,SEPARATORS)) == NULL) {
            perror("strtok");
            return -1;
      if (base_flag) {
            continue_search = address_buf;
      } else {
            continue_search = stop_buf;
```

```
if (strcmp(token,*continue_search++)) {
            return 0;
      // Make sure
      while (**continue_search) {
            if ((token = strtok(NULL, SEPARATORS)) == NULL) {
                  perror("strtok");
                  return -1;
            if (strcmp(token, *continue_search++)) {
                  return 0;
      }
      // Get the base address
      if (base_flag) {
            if ((token = strtok(NULL, SEPARATORS)) == NULL) {
                  perror("strtok");
                  return -1;
            if ((*base_address = strtol(token, (char **)NULL, BASE)) ==
0) {
                  perror("strtol");
                  return -1;
            base_flag--;
            continue_search = stop_buf;
            return 0;
      }
      return 1;
int get_symbol(char *src, char **symbol, int *skip, int *fileflag, int
dynaflag, char **address)
      char *filename;
      static char tbuf[BUFSIZE];
      // Copy string to temporary buffer since strtok is destructive and
we still need the entire string
      if (strcpy(tbuf,src) == NULL) {
            perror("strcpy");
return -1;
      }
      // Skip section information
      if ((*symbol = strtok(tbuf, SEPARATORS)) == NULL) {
            perror("strtok");
            return -1;
      // Read symbol name
      if ((*symbol = strtok(NULL, SEPARATORS)) == NULL) {
            perror("strtok");
            return -1;
      // Get address
      if ((*address = strtok(NULL, SEPARATORS)) == NULL) {
            perror("strtok");
            return -1;
      )
```

```
// Get function declarator
      if ((filename = strtok(NULL, SEPARATORS)) == NULL) {
            perror("strtok");
            return -1;
      // Check to see if token is filename or not
      if (strcmp(filename,F) == 0) {
      // Differentiate globals from functions
             (*fileflag)++;
      // Read filename
            if ((filename = strtok(NULL, SEPARATORS)) == NULL) {
                  perror("strtok");
                  return -1;
            }
      }
       * Eliminate entries that are dynamically linked.
       ^{\star} We only want references that are statically linked in the .exe
because
       * Microsoft won't let me search this import lib last without
       * putting all the default libraries on the link command line.
       * Makes for a smaller import lib anyway.
       ^{\star} Also skip if global variable and dynamod .def file is selected.
      if (strchr(filename,COLON) != NULL | | (dynaflag && (!*fileflag)))
{
            (*skip)++;
            if (*fileflag) {
                  (*fileflag)--;
      return 0;
}
int skip_map_file_preamble(FILE *fp, char *buf, long *base_address)
      int again = 1;
      /* read until 'Address Publics by Value' */
      while (again) {
            if(fgets(buf, BUFSIZE, fp) == NULL) {
                  perror("fgets");
                  return(-1);
            switch (find_string(buf, base_address)){
            case 0: break;
            case 1:
                        again--; break;
            default: return(-1);
      // Skip to first symbol entry
    if(fgets(buf, BUFSIZE, fp) == NULL) {
            perror("fgets");
            return(-1);
    }
      return 0;
}
char *get_program_name(FILE *map_file_name, char *buf)
```

```
char *tok_ptr;
      // Read first line of mapfile to get program name
      if(fgets(buf, BUFSIZE, map_file_name) == NULL) {
                  perror("fgets");
                  return NULL;
      // Strip end of line-
      if ((tok_ptr = strtok(buf,END_OF_LINE_SEPARATOR)) == NULL) {
            perror("strtok");
            return NULL;
      return tok_ptr;
}
int write_def_file_preamble(FILE *fp, char *program_name, int dynaflag,
char *def_file_path)
{
      // Set up the .def file
      if (fprintf(fp,
dynaflag?DEF_FILE_PREAMBLE_DYNAMOD:DEF_FILE_PREAMBLE, def_file_path,
program_name) < 0) {</pre>
            perror("fprintf");
            return -1;
      }
int write_def_file(FILE *fp, char *symbol, int *fileflag, int dynaflag,
long offset)
{
      static ordinal = 1;
      static first_global = 1;
      // Write the symbols out, removing any leading '_', to the .def
file
      if (!dynaflag) {
            if (!(*fileflag) && (first_global)) {
                  fprintf(fp,"%s\n", GLOBAL_COMMENT);
                  first_global--;
            }
            if (fprintf(fp, "%s @%d NONAME %s\n", symbol[0] ==
'_'?++symbol:symbol, ordinal++, (*fileflag)?DATA_NULL:DATA) < 0) {
                  perror("fprintf");
                  return -1;
            }
      // No global variables in the dynamod file
      } else {
            if (*fileflag) {
                  if (fprintf(fp, "%s @%d NONAME 0x%x\n", symbol[0] ==
'_'?++symbol:symbol, ordinal++, offset) < 0) {
                        perror("fprintf");
                        return -1;
                  }
            }
      }
      if (*fileflag) {
            (*fileflag) --;
      }
      return 0;
```

```
int read_map_file(FILE *fp, char **symbol, int *skip, int *fileflag, int
dynaflag, char **address)
      char *bufp;
      static next_flag = 0;
      static again_flag = 1;
      static char buf[BUFSIZE],tempbuf[BUFSIZE];
      // Determine which buffer to use
      if (next_flag) {
            bufp = tempbuf;
            next_flag--;
      } else {
            bufp = buf;
            next_flag++;
      // Get next line
      if(fgets(bufp, BUFSIZE, fp) == NULL) {
          perror("fgets");
            return -1;
      }
      // Get next line if necessary
      if (again_flag) {
            again_flag--;
            if (next_flag) {
                  bufp = tempbuf;
                  next_flag--;
            } else {
                  bufp = buf;
                  next_flag++;
            if(fgets(bufp, BUFSIZE, fp) == NULL) {
             perror("fgets");
                  return -1;
      // Compare address of symbols
      if(strncmp(tempbuf, buf, COMPARE_ADDRESS) == 0) {
            // If same choose the one the linker won't complain about!
            if(strncmp(tempbuf, buf, COMPARE_SYMBOL) > 0) {
                  next_flag = 1;
            } else {
                  next_flag = 0;
            // Need two fgets instead of one next time
            again_flag++;
      // Quit if done
      if (bufp[0] != ' ') {
            return 0;
      if(get_symbol(next_flag?tempbuf:buf, symbol, skip, fileflag,
dynaflag, address)) {
           printf("Cannot get_symbol\n");
            return -1;
      }
      //next_flag ? next_flag-- : next_flag++;
```

```
return 1;
}
/* Arguments to main:
 * argv[1] = /A or /D depending on context
 * argv[2] = name of map file (.map)
 * argv[3] = name of module definition file (.def)
 * Returns:
 * 0 on success
 * -1 on error
void main(int argc, char **argv)
      char *symbol, *name_buf, *address, buf[BUFSIZE],
rel_path_buf[BUFSIZE],
                   abs_path_buf(BUFSIZE);
      FILE *map_file_name, *def_file_name;
      long base_address, offset;
      int skip = 0;
      int fileflag = 0;
      int dynaflag = 0;
      // Parse args for correct flag and arg count.
      if (argc != 4) {
                  printf("Incorrect Argument Count\n");
                  exit(-1);
      if (strcmp(argv[1],DFLAG) == 0) {
            dynaflag++;
      } else {
            if (strcmp(argv[1],AFLAG) != 0) {
                  printf("Incorrect Arguement. Argument 1 must be
either /D or /A\n");
                  exit(-1);
            }
      // Open mapfile
      if((map_file_name = fopen(argv[2], "r")) == NULL) {
            perror("fopen");
printf("Cannot open %s \n",argv[2]);
            exit(-1);
      }
      // Create module definition file
      if((def_file_name = fopen(argv[3], "w")) == NULL) (
            perror("fopen");
            printf("Cannot create %s \n",argv[3]);
            exit(-1);
      // Get program name
      if ((name_buf = get_program_name(map_file_name, buf)) == NULL) {
            exit(-1);
      }
      // Get location of application .def file
      if (strcpy(rel_path_buf, argv[2]) == NULL) {
            perror("strcpy");
            exit(-1);
      }
```

```
if (strcpy(rel_path_buf + strlen(rel_path_buf) - sizeof(DEF)+1,
DEF) == NULL) {
            perror("strcpy");
            exit(-1);
      // Convert relatvie to absolute path
      if (_fullpath(abs_path_buf,rel_path_buf,BUFSIZE) == NULL) {
            perror("_fullpath");
            exit(-1);
      // Write module definition file preamble
      if(write_def_file_preamble(def_file_name, name_buf, dynaflag,
abs_path_buf) == -1) {
            printf("Cannot write module definition file preamble %s
\n", map_file_name);
            exit(-1);
      // Skip mapfile preamble
      if(skip_map_file_preamble(map_file_name, buf, &base_address) == -
1) {
            printf("Cannot skip mapfile preamble %s \n", map_file_name);
            exit(-1);
      // Read and write until done or error
     while (TRUE) {
            switch (read_map_file(map_file_name, &symbol, &skip,
&fileflag, dynaflag, &address)) {
            // Not Done
            case 1: break;
            // Done
            case 0: exit(0);
            // Error
            default: exit(-1);
            // Skip symbol if not statically linked in the .exe
            if (skip) {
                  skip--;
            } else {
                  // If dynamod .def file, calculate funtion offset
                  if (dynaflag) {
                        if ((offset = strtol(address, (char **)NULL,
BASE)) == 0) {
                              perror("strtol");
                              exit(-1);
                        offset -= base_address;
                  if(write_def_file(def_file_name, symbol, &fileflag,
dynaflag, offset) == -1) {
                        exit(-1);
            }
     }
}
```

\_\_\_\_\_\_\_

MICROSOFT FOUNDATION CLASS LIBRARY : dynaplay

AppWizard has created this dynaplay DLL for you. This DLL n ot only

demonstrates the basics of using the Microsoft Foundation classes but

is also a starting point for writing your DLL.

This file contains a summary of what you will find in each of the files that make up your dynaplay DLL.

dynaplay.cpp

This is the main DLL source file that contains the definition of

DllMain().

dynaplay.rc

This is a listing of all of the Microsoft Windows resour ces that the

program uses. It includes the icons, bitmaps, and curso rs that are stored

in the RES subdirectory. This file can be directly edit ed in Microsoft

Developer Studio.

res\dynaplay.rc2

This file contains resources that are not edited by Microsoft

Developer Studio. You should place all resources no t editable by the resource editor in this file.

dynaplay.def

This file contains information about the DLL that must be  $\ensuremath{\text{e}}$ 

provided to run with Microsoft Windows. It defines para meters

such as the name and description of the DLL. It also exports  $\ensuremath{\mathsf{S}}$ 

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functions from the DLL.

dynaplay.clw This file contains information used by ClassWizard to ed it existing classes or add new classes. ClassWizard also uses this file to store information needed to create and edit message maps and d ialog data maps and to create prototype member functions. Other standard files: StdAfx.h, StdAfx.cpp These files are used to build a precompiled header (PCH) file named dynaplay.pch and a precompiled types file named St dAfx.obj. Resource.h This is the standard header file, which defines new reso urce IDs. Microsoft Developer Studio reads and updates this file. Other notes: AppWizard uses "TODO:" to indicate parts of the source code you should add to or customize.

echo off

if "%OS%"=="Windows\_NT" goto :NT

if not "%OS%"=="" goto :Error

command /e:4096 /c Dynabat2 %1 %2 %3 %4 %5 %6 %7 %8 %9

exit
:NT

Dynabat2 %1 %2 %3 %4 %5 %6 %7 %8 %9

exit
:Error

echo Dynamize: Environment variable "OS" must be either "Windows\_NT"

echo when running on NT or blank for Windows95.

```
echo off
rem ------
rem Check the Arg count
rem -----
if '%6' == '' goto :Args
if not '%7' == '' goto :Args
rem ------
rem Check the Configuration
rem -----
set CFG≈Unknown
if %6 == DynaDebug set CFG="%2 - Win32 DynaDebug"
if %6 == DynaRelease set CFG="%2 - Win32 DynaRelease"
if %CFG% == Unknown goto :Config
rem -----
rem Check for existence of application .def file
rem -----
if not exist %4\%6.def goto :Def_error
rem -----
rem Build the module definition file
rem -----
if exist %1\%2.def erase %1\%2.def
Dynamap /D %1/%2.map %1/%2.def
if not exist %1\%2.def goto :Map_error
rem -----
rem Generate the control file
rem ------
Dynagen %4/%6.def %1/%2.def
if not errorlevel 0 goto :Gen_error
rem Done!
rem -----
:Done
exit
rem ------
rem Handle the errors
rem ------
rem ------
rem Remove any intermediate files
rem ------
:Error
if exist %1\dynaplay.def erase %1\dynaplay.def
touch %1\dynaplay.def
if exist %1\%2.dll erase %1\%2.dll
exit
rem -----
rem Complain about the argument count
rem ------
echo Error: Dynamize: Wrong number of arguments.
echo Custom build command for project %3 must be the following:
echo Dynamod "$(OutDir)" "$(InputName)" "$(Wkspname)" "$(WkspDir)" "$(IntDir)"
DynaDebug
echo Or
echo Dynamod "$(OutDir)" "$(InputName)" "$(Wkspname)" "$(WkspDir)" "$(IntDir)"
DynaRelease
echo Depending on which build configuration you are running.
goto :Error
```

```
:Config
rem ------
rem Complain about the configuration parameter
rem -----
echo Error: Dynamize: Unknown Configuration.
echo Custom build parameter 5 for project %3 is %6.
echo Custom build parameter 5 must be either DynaDebug or DynaRelease.
echo Check your custom build settings for the current configuration.
goto :Error
rem -----
rem Complain about .def file
rem -----
:Def error
echo Error: Dynamod: Could not find file %4\%6.def
echo Please rebuild application
goto :Error
rem -----
rem Complain about Dynamap
rem -----
:Map error
echo Error: Dynamod: Could not generate module definition file
echo Make sure that file Dynamap.exe is in your search path
goto :Error
rem -----
rem Complain about Dynagen
rem -----
:Gen error
echo Error: Dynamod: Could not generate virtual filesystem
echo Make sure that file Dynagen.exe is in your search path
goto :Error
```

```
echo off
 rem -----
 rem Check the Arg count
 rem -----
 if '%7' == '' goto :Args
 if not '%8'== '' goto :Args
 rem -----
 rem Check the Configuration
 rem ------
 set CFG=Unknown
 set DYNALIB=%5\%7.lib
 if %7 == DynaDebug set CFG="%2 - Win32 DynaDebug"
 if %7 == DynaRelease set CFG="%2 - Win32 DynaRelease"
 if %CFG% == Unknown goto :Config
 rem -----
 rem Remove the application
 rem ------
 if exist %1\%2.exe erase %1\%2.exe
 if exist %1\%2.exe goto :App error
 rem -----
 rem Build the module definition file
 rem -----
 if exist %5\%7.def erase %5\%7.def
Dynamap /A %1/%2.map %5/%7.def
 if not exist %5\%7.def goto :Map_error
 rem ------
rem Generate the .lib
 rem ------
 if exist %5\%7.lib erase %5\%7.lib
Tlink /lib /nologo /def:%5\%7.def /out:%5\dynaplay.lib > %1\dynagarbage.can
 copy %5\dynaplay.lib %DYNALIB% > %1\dynagarbage.can
 if not exist %DYNALIB% goto :Lib error
 rem -----
 rem Generate the .dbj's
 rem -----
 if exist %1\dynatab.dbj erase %1\dynatab.dbj
 Dynaobj %1 /A %5/%7.def
 if not exist %1\dynatab.dbj goto :Dbj_error
 rem -----
 rem Move the .obj's to .obd's
 rem Move the .dbj's to .obj's
 rem ------
 if exist %1\*.obd erase %1\*.obd
 rename %1\*.obj *.obd
 rename %1\*.dbj *.obj
 copy %1\dynatab.obj . > %1\dynagarbage.can
 if exist %1\*.dbj goto :Rename_error
 rem -----
 rem Check for existence of makefile
 rem ------
 if not exist %3.mak goto :Export_error
 rem ------
 rem Relink the application with the export file
 rem -----
 nmake /nologo /s /f %3.mak %4 CFG=%CFG%
 if errorlevel 1 goto :Nmake_error
 rem -----
```

```
rem Rerename the .dbj's and .obj's
rem ------
if exist %1\*.dbj erase /q %1\*.dbj
rename %1\*.obj *.dbj
rename %1\*.obd *.obj
if exist %1/*.obd goto :Rename error
rem ------
rem Create the Virtual File System
rem -----
Dynagen %5/%7.def
if not errorlevel 0 goto :Vfs_error
rem -----
rem Remove the extraneous files
rem ------
if not exist %5\dynaplay.exp goto :Exp_error
if exist %5\dynaplay.exp erase %5\dynaplay.exp
if exist %5\dynatab.obj erase %5\dynatab.obj
if exist %1\%2.map erase %1\%2.map
if exist %1\dynagarbage.can erase %1\dynagarbage.can
rem -----
rem Done!
rem ------
exit
rem ------
rem Handle the errors
rem ------
rem ------
rem Remove any intermediate files
rem ------
:Error
if exist %4 erase %4
if exist %5\%7.def erase %5\%7.def
if exist %DYNALIB% erase %DYNALIB%
if exist %5\dynaplay.exp erase %5\dynaplay.exp
if exist %5\dynaplay.lib erase %5\dynaplay.lib
if exist %5\dynatab.obj erase %5\dynatab.obj
if exist %1\dynagarbage.can erase %1\dynagarbage.can
exit
:Args
rem -----
rem Complain about the argument count
rem ------
echo Error: Dynamize: Wrong number of arguments.
echo Custom build command for project %3 must be the following:
echo Dynamize "$(OutDir)" "$(InputName) "$(WkspName) "$(TargetPath)"
"$(WkspDir)" "($IntDir)" DynaDebug
echo Or
echo Dynamize "$(OutDir)" "$(InputName) "$(WkspName) "$(TargetPath)"
"$(WkspDir)" "($IntDir)" DynaRelease
echo Depending on which build configuration you are running.
goto :Error
:Config
rem ------
rem Complain about the configuration parameter
rem ------
echo Error: Dynamize: Unknown Configuration.
echo Custom build parameter 6 for project %3 is %7.
```

```
echo Custom build parameter 6 must be either DynaDebug or DynaRelease.
echo Check your custom build settings for the current configuration.
goto :Error
rem -----
rem Complain about application
rem -----
:App_error
echo Error: Dynamize: Could not erase file .\%2.exe
goto :Error
rem Complain about Dynamap
rem -----
:Map error
echo Error: Dynamize: Could not generate module definition file
echo Make sure that file Dynamap.exe is in your search path
goto :Error
rem -----
rem Complain about lib.exe
rem -----
:Lib error
echo Error: Dynamize: Could not sucessfully execute lib.exe
echo Possible causes include :
                           Could not find lib.exe
                           Wrong or corrupt version of lib.exe
echo
                           Missing or corrupt file %1\%2.def
echo
                           Not running on an Intel cpu based machine
echo
goto :Error
rem -----
rem Complain about Dynaobj.exe
rem -----
:Dbj error
echo Error: Dynamize: Could not generate dynatab.dbj
echo Make sure Dynaobj.exe is in your search path
if exist %1\dynatab.dbj erase %1\dynatab.dbj
goto :Error
rem -----
rem Complain about renaming files
rem -----
:Rename_error
echo Error: Dynamize: Could not rename files
echo Make sure .dbj and .obj files exist
goto : Reset files
rem -----
rem Complain about existence of makefile
rem -----
:Export error
echo Error: Dynamize: No makefile exists for this project.
                   Please export makefile and rebuild.
echo
goto :Reset_files
rem ------
rem Complain about nmake
rem ------
:Nmake error
echo Error: Dynamize: Could not run nmake -f %2.mak %4 %CFG%
echo Seek professional help
goto :Reset_files
rem ------
```

```
rem Remove the export file
rem -----
:Exp_error
echo Error: Dynamize: Could not erase file %5\%2.exp
goto :Error
rem -----
rem Rerename the .obj's and .dbj's
rem -----
:Vfs error
echo Error: Dynamize: Could not create Virtual File System
echo Go bother Takashi
goto :Error
rem -----
rem Rerename the .obj's and .dbj's
rem -----
:Reset_files
if exist %1\*.dbj erase /q %1\*.dbj
rename %1\*.obj *.dbj
rename %1\*.obd *.obj
goto :Error
```

Dynamize, bat

```
echo off
if "%OS%"=="Windows_NT" goto :NT
if not "%OS%"=="" goto :Error
command /e:4096 /c Dynabat %1 %2 %3 %4 %5 %6 %7 %8 %9
exit
:NT
Dynabat %1 %2 %3 %4 %5 %6 %7 %8 %9
exit
:Error
echo Dynamize: Environment variable "OS" must be either "Windows_NT"
echo when running on NT or blank for Windows95.
```

DynaPlay SDK README FILE DynaPlay SDK Version 0.20 (C) Copyright 1996, 1997 SegaSoft All rights reserved.

Configuration instructions for using DynaPlay with Microsoft Developer's Studio.

## **IMPORTANT NOTE!**:

Currently the DynaPlay SDK is only configured to support Microsoft Developer's Studio versions 4.x with the exception of version 4.0 under NT. Release 5.0 is **NOT** supported at this time. Furthermore, the DynaPlay SDK will **NOT** work with version 5.0 at this time. Furthermore, it's Microsoft's fault, not mine, at this time.

### ALSO NOTE:

An example for the following instructions exists in the DynaPlay SDK. Refer to the Hangman32 workspace provided in

# c:\Program Files\DynaPlay\Examples\Hangman32

(or wherever you installed the SDK) as an example of how to set up a DynaPlay workspace. Only steps 1 and 9 need be performed in order to build and execute this example.

In order to use the DynaPlay SDK with Developer's Studio versions 4.x, the following steps must be taken after the DynaPlay SDK has been successfully installed:

1. Make sure the DynaPlay executables and libraries are in the Developer's Studio search path. Add these directories (typically, c:\Program Files\DynaPlay\bin and c:\Program Files\DynaPlay\lib) to your executable and library search paths by calling up the Tools Options window and clicking on the Directories option. Add

# c:\Program Files\DynaPlay\bin

(or wherever you installed the SDK) under executable files and

# c:\Program Files\DynaPlay\lib

(or wherever you installed the SDK) under library files.

Note: Check to see if the file

### dynalib.dll

was installed in your Windows system directory (usually \Windows\System

for Windows95 and \Winnt\System32 for NT). If you do not have write access to this directory, dynalib.dll will be installed in

### c:\Program Files\DynaPlay\bin

(or wherever you installed the SDK). This will allow you to build your applications from within Developer's Studio but if you wish to execute them you must make sure that dynalib.dll is placed in a directory that is included in your **PATH** environment variable.

2. Create the DynaPlay build configurations for your existing project. These configurations must be named

# DynaDebug

and

## DynaRelease

Create these by invoking the Build Configurations menu option and selecting Add. Use the configuration settings for your Debug configuration in creating the DynaDebug configuration and similarly use the configuration settings for your Release configuration in creating the DynaRelease configuration.

- 3. After the new configurations have been created, call up the Build Settings window and click on the DynaDebug configuration. Hold the Ctrl key down while clicking on the DynaRelease configuration so that both configurations are selected. Now any modifications you make to the build settings will apply to both configurations.
- 4. Under the General category for Build Settings, make sure that the option

# Use MFC in a shared DLL

is selected. This is necessary for all MFC based DynaPlay applications and has no effect if your application is not MFC based.

**5.** Under the C/C++ category select Optimizations. For the In-line function expansion setting, choose

### Disable \*

This is not absolutely necessary but is highly recommended until you have gained enough experience with DynaPlay to know how much trouble you can get into by not selecting this option.

**6.** Under the Link category select General. For the option Object/library modules, add the following:

# dynatab.obj dynaplay.exp dynalib.lib

Also, make sure the

### Generate mapfile

option is selected and that the

### Link Incrementally

option is turned off, otherwise you will get an annoying warning message every time you build since incremental linking is incompatible with map generation.

7. Call up the Custom Build category and under Build command(s), add the following line:

Dynamize "\$(OutDir)" "\$(InputName)" "\$(WkspName)" "\$(TargetPath)" "\$(WkspDir)" "\$(IntDir)" DynaReleas

You might try cutting and pasting the line above to make sure you get it right. For the Output file(s) section, add the following:

### \$(WkspDir)\DynaRelease.def

#### NOTE:

If you can see the difference between the workspace name and the project name, you will have to use the project name instead of "\$(InputName)". "\$(InputName)" represents the workspace name. The project name is shown in the project workspace window.

For example, the workspace name is "Test" and the project name is "test" the following:

# Dynamize "\$(OutDir)" "test" "\$(WkspName)" "\$(TargetPath)" "\$(WkspDir)" "\$(IntDir)" DynaRelease

**8.** Now click on the DynaDebug configuration so that only it is selected. Change the Custom Build information for this configuration so that all references to DynaRelease are changed to DynaDebug. The resulting lines should look like:

Dynamize "\$(OutDir)" "\$(InputName)" "\$(WkspName)" "\$(TargetPath)" "\$(WkspDir)" "\$(IntDir)" DynaDebug

to the Build command(s) section and

# \$(WkspDir)\DynaDebug.def

to the Output file(s) section. Finally, in the Link Project Options section, add the following option:

### /opt:noref

Make sure that you scroll down to the bottom of the Project Options before entering the above option since Developer's Studio is likely to misinterpret how this option is to be parsed otherwise.

### NOTE:

If you can see the difference between the workspace name and the project name, you will have to use the project name instead of "\$(InputName)". "\$(InputName)" represents the workspace name. The project name is shown in the project workspace window.

For example, the workspace name is "Test" and the project name is "test" the following:

## Dynamize "\$(OutDir)" "test" "\$(WkspName)" "\$(TargetPath)" "\$(WkspDir)" "\$(IntDir)" DynaDebug

9. Build and execute the application in both the DynaDebug and DynaRelease configuration to make sure that everything is configured correctly. If so, you have now successfully built an application that has been "Dynamized" and is now ready to accept DynaPlay modules. Of note is the fact that you have accomplished this without making any modifications to the existing source code for the application. You are now ready to create the modules that DynaPlay uses to modify your existing application. These modules can be applied both at application startup and dynamically during the runtime of the application to modify the behavior of the application in any manner the programmer chooses. Not only can these modifications be performed dynamically (hence, the name DynaPlay) but these modifications require no forethought, that is, they can be made to the application after it has been created and distributed without prior planning as to the nature of these changes. The next section will discuss how to create the modules that DynaPlay ready applications use.

#### NOTE:

Do not change **Intermediate files** and **Output files** under the General category for Build Settings.

## Creating modules for use with DynaPlay ready applications

At present, the responsibility for maintaining the source code used in the **Dynamodules**, rests with the user. This can be accomplished in a number of different ways, depending upon the nature of the application being developed. The Hangman example provided with the SDK shows separate directories, **dyna\_include** and **dyna\_c** for holding the source code used in the **Dynamodule**. This approach allows complete freedom to modify the application in any way, including header file modifications, without affecting the source code for the original application. This could be accomplished in other ways, such as using Visual SourceSafe to keep track of different versions of the code or the user may simply decide to modify the original code itself. At present, the choice of which method to use is up to the user. Keep in mind the following requirements when making your decision:

- The source code contained in the **Dynamodule** consists of only the changes you
  wish to make to the original application. Only those functions that are modified
  are included in the **Dynamodule**.
- 2. The filenames of the **Dynamodule** source code must have the same names as the filenames in the original application. For example, if you modify function x() in file a.c and function y() in file b.c, your **Dynamodule** will consist of code from two files, a.c and b.c. a.c will contain only function x() and b.c will contain only function y(). You cannot combine both functions into one file and call it, for example, c.c( or a.c or b.c for that matter).

Once the decision has been made as to how the **Dynamodule** source code will be maintained, the procedure for creating a **Dynamodule** project in Developer Studio is a follows:

- 1. Open the workspace that includes the original application.
- 2 Select the menu option Insert Project and choose to create either a Dynamic-Link Library or an MFC AppWizard(dll) depending on whether or not your application is an MFC application. Create this dll as a Top level project. You may name it anything you wish.

Note: If using MFC AppWizard(dll) to create the Dynamodule, you must select the MFC extension dll (using shared MFC DLL) option during the creation process.

- 3. If you have created an MFC Dynamodule, you must replace the "resource.h" file created by the AppWizard for the Dynamodule with the "resource.h" file used by the application. Use Windows Explorer to copy "resource.h" from the project directory of the application to the project directory of the Dynamodule, replying yes when asked if you wish to replace the existing file.
- 4. Select the menu option **Build Subprojects**. For the **Dynamodule** project you just created, include the original application as a subproject. This will insure that if the original application changes in any way that it will be rebuilt before the **Dynamodule** is built.
- 5. Select the **Build Configurations** menu option and, as you did with the original application, create two new configurations, **DynaDebug** and **DynaRelease**.
- Include two files that were created when the original application was Dynamized, DynaDebug.lib and DynaRelease.lib. They should reside in the root directory of this project's workspace.
- 7. Transfer any pertinent **Build Settings** from the original application to the **Dynamodule**. With both the **DynaDebug** and **DynaRelease** configurations selected, make sure the following options are set:
  - a. Under the General category, make sure that Use MFC in a Shared DII is selected, if this is an MFC application. This is necessary even though the Dynamodule was created as a non-MFC dII.
  - b. Under the C/C++ optimizations category, make sure that In-line function expansion is set to Disable \*.
  - c. Under the Link General category, make sure that Generate mapfile is selected.
- 8. Select just the DynaRelease build setting and set the following options:
  - a. Under the Link Project Options add the following:

# /opt:noref

just as you did for the DynaRelease configuration of the original application.

b. Under the Custom Build category, add the following Build command:

Dynamod "\$(OutDir)" "\$(InputName)" "\$(WkspName)" "\$(WkspDir)" "\$(IntDir)" DynaRelease

As with the original application, you may find cutting and pasting to be useful here.

c. For the Output file(s) enter the following:

# \$(OutDir)\\$(InputName).def

- 9. Select just the **DynaDebug** build setting and set the following options:
  - a. Under the Custom Build category, add the following Build command:

Dynamod "\$(OutDir)" "\$(InputName)" "\$(WkspName)" "\$(WkspDir)" "\$(IntDir)" DynaDebug

b. For the Output file(s) enter the following:

### \$(OutDir)\\$(InputName).def

- 10. Select the Build Settings for DynaDebug.lib under the DynaRelease configuration and set the following:
  - Under the General category, make sure the Exclude file from build option is selected.
- 11. Select the Build Settings for **DynaRelease.lib** under the **DynaDebug** configuration and set the following:
  - a. Under the **General** category, make sure the **Exclude file from build** option is selected.
- 12. Include the source files into the project that you wish to modify. Remember, include only those files that contain modifications to the original application or the dll will be unnecessarily large. Also remember that any files included in the project should contain only those functions that are modified for the same reason.

Note: MFC Dynamodules can still use Class Wizard, however, you must copy, exactly, the constructor function, the AFX\_DATA\_MAP and the AFX\_MSG\_MAP of the object and then manually add the object to the Class Wizard database. Refer to the example in the SDK for details.

- 13. New resources may be added to MFC Dynamodules as you would normally add them to the application. No additional code is required to manage their use. You may also modify existing resources by drag and dropping them from the application into the Dynamodule and then editing them. No additional code is required. Also, compound resources, such as dialog boxes that include icons, need not include those resources that will not be modified. This is a new feature, available only with DynaPlay, that eliminates the need for redundant resources in the Dynamodule resulting in a much smaller dll than is typically capable using traditional programming methods. Refer to the About box in the Hangman application for an example of how this can be used.
- 14. Build the application.

Note: The first time you try and build an MFC Dynamodule, you will be asked if you wish to overwrite the existing "resource.h" file. This is due to having copied the application's "resource.h" file in step 3. Answer yes to this question. You will not be asked again.

15. Select the Execute option. When prompted, enter the relative path name of the original application that was built for this Dynamodule. Remember that the DynaDebug version of the original application only works with DynaDebug versions of the Dynamodules and that the same holds true for the DynaRelease version of the original application with respect to the DynaRelease versions of any Dynamodules created.

The application should now execute with the code created in the **Dynamodule** substituted in place of the code created in the original application. Executing the Hangman32 example provided in the SDK demonstrates this.

```
Following commands You can Modify
 # * If you want to modify commands, you have to take
    out ';' at first line.
   * The root of a terget path is the directory where
     is an application in user environment.
 # * /initscb is a control script that represents before
     before /initsc. /initsca means a control script that
     represents after /initsc.
 # * /initscb + /initsc + /initsca is a control script for#
     DynaModule. The control script saves XXX.dat
                        is a dependent modules which is
 # * /dependent:
     used by this DynaModule.
; # * /eval: is the evaluating script in a DynaInstall.exe ; # * Use '\' and CR to continure a line
 ;/scinitb: ControlScript_brefore_'initsc'
;/scinita: ControlScript_after_'initsc'
;/dependent:module_name1,module_name2,...
;/eval:ControlScript
;/vfs:Source_path|Target_path_in_VFS
;/vfsdata:Value|Target_path_in_VFS
/data:C:\Program Files\Net
Fighter\DynaModules\DynaModule1\DynaRelease\dynamodule1.dll|selfandheat\dynamo
dule1.dll
/data:C:\Program Files\Net
Fighter\DynaModules\DynaModule2\DynaRelease\dynamodule2.dll|selfandheat/dynamo
dule2.dll
/out:c:\temp\aaa.dyp
```

dep - the is what were downloads

All + ising

English were

Script - bray min till

+ cut read

men then were depreciately. Exe exe to exect stuft, store flata en VFs, store d'alta en conseil d'inécetoris